

Internet Technologies

B.Sc. (IT) Sem. VI

EVALUATION SYSTEM

	Time	Marks
Theory Exam	3 Hrs.	100
TW / Tutorial	–	50

SYLLABUS

- 1. Introduction :** OSI Model, TCP/IP Protocol Suite, Network Layer, IPV4 and IPV6 Addresses and Protocol.
- Address Resolution Protocol (ARP), Internet Control Message Protocol Version 4 (ICMPv4), Mobile IP, Unicast Routing Protocols (RIP, OSPF and BGP)
- Transport Layer, User Datagram Protocol (UDP), Transmission Control Protocol (TCP), Stream Control Transmission Protocol (SCTP)
- 4. Host Configuration :** DHCP, Domain Name System (DNS).
Remote Login : TELNET and SSH
File Transfer : FTP and TFTP
- World Wide Web and HTTP
Electronic Mail: SMTP, POP, IMAP and MIME
Network Management : SNMP, Multimedia.
- 6. Client Server Programming :** Concurrent Connection Oriented (TCP) and Connectionless programming (UDP), Iterative connectionless (TCP) and connection oriented servers (UDP).

References :

- TCP/IP Protocol Suite, (*Behrouz A. forouzan*), 4th Edition, TMH
- Internetworking with TCP/IP, Volume III, Second Edition, (*Douglas E. Comer, D. L. Stevens*), PHI
- Internetworking with TCP/IP, Volume I, Fifth Edition, (*Douglas E. Comer*) PHI
- Internetworking with TCP/IP, Volume II, Third Edition, (*Douglas E. Comer, D. L. Stevens*), PHI
- TCP/IP Illustrated, Eastern Economy Edition, (*N. P. Gopalan, B. Siva Selvan*), PHI