**Lesson Plan (Session- 2021-22)**
**B. C. A. – III, Sem. – 6TH**

**Internet Technologies**

**Mr. Naresh, Assistant Professor (Computer Sc.)**

**S U S Govt. College Matak Majri, Indri (Karnal)**

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| **S. No.** | **Month** | **Contents** |
| 1 | April | Internet: Introduction; History; Internet Services; TCP/IP: Architecture, Layers, Protocols; TCP/IP model versus OSI Model; World Wide Web (WWW) - The Client Side, The Server Side, Creating and Searching Information on the Web, Popular Search Engines, URL, HTTP, Web Browsers, Chat &Bulletin Board, USENET & NNTP (Network News Transfer Protocol); Internet vs. Intranet; TCP, UDP and IP Protocols, Port Numbers; Format of TCP, UDP and IP; IPv4 addressing; The need for IPv6; IPv6 addressing and packet format; TCP Services; TCP Connection Management; Remote Procedure Call; |
| 2 | May | IP Address Resolution- DNS; Domain Name Space; DNS Mapping; Recursive and Iterative Resolution; Mapping Internet Addresses to Physical Addresses: ARP, RARP, DHCP; ICMP;IGMP; Application Layer: Electronic Mail: Architecture; Protocols - SMTP, MIME, POP, IMAP; Web Based Mail; File Access and Transfer: FTP, Anonymous FTP, TFTP, NFS; Remote Login using TELNET; Voice and Video over IP: RTP, RTCP, IP Telephony and Signaling, RSVP;**REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 1** |
| 3 | June | Routing in Internet: RIP, OSPF, BGP; Internet Multicasting; Mobile IP; Private Network Interconnection:, **REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 2 AND SESSIONAL**Network Address Translation (NAT), Virtual Private Network (VPN); InternetManagement and SNMP; Internet Security: E-Mail Security; Web Security; Firewall; Introduction toIPSec and SSL;  |