

**Govt College for Women Karnal**  
**Lesson Plan Session 2024-25 (EVEN Semester)**

**Class: B.C.A 6<sup>th</sup> Sem, Subject: Internet Technologies**

**Name of Assistant Professor: Ms. Nisha**

**Week I (01/01/2025 to 04/01/2025)**

Internet: Introduction; History; Internet Services; TCP/IP: Architecture, Layers, Protocols

**Week II (06/01/2025 to 11/01/2025)**

TCP/IP model versus OSI Model; World Wide Web (WWW) - The Client Side, The Server Side

**Week III (13/01/2025 to 18/01/2025)**

Creating and Searching Information on the Web, Popular Search Engines, URL, HTTP

**Week IV (20/01/25 to 25/01/2025)**

Web Browsers, Chat & Bulletin Board, USENET & NNTP (Network News Transfer Protocol); Internet vs. Intranet

**Week V (27/01/25 to 01/02/2025)**

TCP, UDP and IP Protocols, Port Numbers; Format of TCP, UDP and IP; IPv4 addressing; The need for IPv6; IPv6 addressing and packet format;

**Week VI (03/02/25 to 08/02/2025)**

TCP Connection Management; Remote Procedure Call; IP Address Resolution- DNS; Domain Name Space, TCP Services

**Week VII (10/02/2025 to 15/02/2025)**

DNS Mapping; Recursive and Iterative Resolution; Mapping Internet Addresses to Physical Addresses: ARP, RARP

**Week VIII (17/02/2025 to 22/02/2025)**

DHCP; ICMP; IGMP; UDP, Application Layer: Electronic Mail: Architecture; Protocols - SMTP, MIME, POP, IMAP

**Week IX (24/02/2025 to 01/03/2025)**

File Access and Transfer: FTP, Anonymous FTP, TFTP, NFS; Remote Login using TELNET;

**Week X (24/04/2025 to 26/04/2025)**

Voice and Video over IP: RTP, RTCP,

**Week XI (03/03/2025 to 08/03/2025)**

IP Telephony and Signaling, RSVP; Routing in Internet: RIP, OSPF, BGP

**Week XII (17/03/2025 to 22/03/2025)**

Internet Multicasting; Mobile IP; Private Network Interconnection: Network Address Translation (NAT)

**Week XIII (24/03/2025 to 29/03/2025)**

Virtual Private Network (VPN); Internet Management

**Week XIV (31/03/2025 to 05/04/2025)**

SNMP; Internet Security: E-Mail Security

**Week XV (07/04/2025 to 12/04/2025)**

Web Security; Firewall; Introduction to IPSec and SSL

**Week XVI (14/04/2025 to 19/04/2025)**

Revision and tests

**Week XVII (21/04/2025 to 26/04/2025)**

Sessional, Revision and tests

**Week XVIII (28/04/2025 to 30/04/2025)**

Revision and tests