Paper Code: HCSGE2022T	Paper Name: Computer Networks and Internet Technologies	Marks: 60
Sl. No.	**Topic**	**No. of Periods**
GROUP-A		**26**
1	**Computer Networks:** Introduction to computer network, data communication, components of data communication, data transmission mode, data communication measurement, LAN, MAN, WAN, wireless LAN, internet, intranet, extranet.	6
2	**Network Models:** Client/ server network and Peer-to-peer network, OSI, TCP/IP, layers and functionalities.	6
3	**Transmission Media:** Introduction, Guided Media: Twisted pair, Coaxial cable, Optical fiber. Unguided media: Microwave, Radio frequency propagation, Satellite.	4
4	**LAN Topologies:** Ring, bus, star, mesh and tree topologies.	4
5	**Network Devices:** NIC, repeaters, hub, bridge, switch, gateway and router.	2
6	**Internet Terms:** Web page, Home page, website, internet browsers, URL, Hypertext, ISP, Web server, download and upload, online and offline.	4
GROUP-B		**26**
7	**Internet Applications:** www, telnet, ftp, e-mail, social networks, search engines, Video Conferencing, e-Commerce, m-Commerce, VOIP, blogs.	6
8	**Introduction to Web Design:** Introduction to hypertext markup language (html) Document type definition, creating web pages, lists, hyperlinks, tables, web forms, inserting images, frames, hosting options and domain name registration. Customized Features: Cascading style sheet (css) for text formatting and other manipulations.	10
9	**JavaScript Fundamentals:** Data types and variables, functions, methods and events, controlling program flow, JavaScript object model, built-in objects and operators.	10
	Total	**52**

Books and References:
1. Andrew S. Tanenbaum, David J. Wetherall Computer Networks (5th Edition),PHI, 2010
2. B. A. Forouzan, Data Communication and Networking , TMH,2003.
3. D.R. Brooks, An Introduction to HTML and Javascript for Scientists and Engineers, Springer W. Willard,2009
4. HTML A Beginner's Guide, Tata McGraw-Hill Education, 2009.

Paper Code: HCSGE2022P	Internet Applications (PRACTICAL)	Marks: 40