

DEPARTMENT OF COMPUTER SCIENCE

Dyal Singh College, University of Delhi

(ACADEMIC SESSION, 2022-23)

Course: B.Sc. (H) Computer Science (V Semester)

Paper Code and Name: 32341501, Internet Technologies (TH)

FACULTY

Name of Teacher: Ms. Rashmi Yadav

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ASSESSMENT DETAILS

Total Marks for the course is 100, comprising following components

- Attendance – 5 marks
 - Individual Assignment – 10 marks
 - Test/ Presentation – 10 marks
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TEACHING PLAN

Week	Topics Covered/ Assignments/ Test/Presentations
1-2	Javascript
3-4	jQuery
5-6	JSON, Ajax
7-8	BOOTSTRAP, NODE.js
9-10	Network address translation, Subnet Masking, Difference between Intranet and Internet, Working of Internet, Dynamic and Static Routing, Domain Name Server
11-12	Networking tools - ipconfig, ping, netstat, traceroute, Introduction to forums, blogging, portfolio, Developing a responsive website, combining Web Applications and Mobile Applications
13-14	Search Engines - components, working, optimization, Crawling, BOTS, introduction to cookies and sessions, e-commerce websites and e-carts, introduction to Internet Protocols - HTTP, HTTPS, FTP, SMTP, IMAP, POP3, VoIP, Server-side Technologies and hybrid technologies
15	Web Servers: Working, Configuring, Hosting and Managing a Web server Proxy Servers: Working, Type of Proxies, setting up and managing a proxy server, Client-side Technologies

DEPARTMENT OF COMPUTER SCIENCE

Dyal Singh College, University of Delhi

(ACADEMIC SESSION, 2022-23)

Course: General Elective (III Semester)

Paper Code and Name: 32345302, Computer Networks (TH)

FACULTY

Name of Teacher: Ms. Mehak and Ms. Rashmi Yadav

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ASSESSMENT DETAILS

Total Marks for the course is 100, comprising following components

- Attendance – 5 marks
 - Individual Assignment – 10 marks
 - Test/ Presentation – 10 marks
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TEACHING PLAN

Week	Topics Covered/ Assignments/ Test/Presentations
1-2	Internet Terms: Web page, Home page, website, internet browsers, URL, Hypertext, ISP, Web server, download and upload, online and offline Introduction to computer network, data communication, components of data communication
3	Introduction to Web Design: Introduction to hypertext markup language (html) Document type definition, creating web pages, lists Data transmission mode, data communication measurement, LAN, MAN, WAN, wireless LAN, internet, intranet, extranet.
4-5	Hyperlinks, Inserting images Network Models: Client/ server network and Peer-to-peer network. LAN Topologies: Ring, bus, star, mesh and tree topologies.
6-7	Basic CSS properties, tables Network Devices: NIC, repeaters, hub, bridge, switch, gateway and router.
8-9	Web forms OSI Model, TCP/IP, layers and functionalities.
10-11	Cascading style sheet (css) and other manipulations Transmission Media: Guided Media: Twisted pair, Coaxial cable
12-13	Frames Optical fiber, Unguided media: Microwave
14-15	Hosting options and domain name registration Radio frequency propagation, Satellite