

# DEPARTMENT OF COMPUTER SCIENCE

Dyal Singh College, University of Delhi

(ACADEMIC SESSION, 2022-23)

Course: B.Sc(H) Computer Science(Part II/ III Semester)

Paper Code and Name: 32341303 Computer Networks

(TH/PR)

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## FACULTY

Name of Teacher: Mr. Amit Kumar

Contact: 9871992012

Email: amitkumar.compssc@dsc.du.ac.in

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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   | Introduction to Computer Networks: Network Type- LAN, MAN, WAN Duplexing, Network Architecture Models- OSI, TCP/IP   |
| 3-4   | Analog signal, digital signal, Transmission Impairment, Performance, Line Coding Schemes, Digital modulation techniques: (ASK, PSK, QAM)   |
| 5-6   | Multiplexing: FDM, TDM, WDM, Switching Techniques- Circuit, packet and message switching, Transmission media   |
| 7-8   | Services of Data Link Layer, framing and flow control, Ethernet, data link layer switching, point-to-point protocol. Error-detection and correction techniques. Test   |
| 11-12 | Inter networks, virtual circuits and datagrams, addressing-sub netting, Routing- distance vector and link state routing, Protocol- ARP, IPV4, ICMP Transport Layer: Services, Protocol- UDP, TCP, Flow Control. Assignment |
| 13-14 | Process to process Delivery- client server paradigm, connectionless versus connection oriented Application Layer: Domain name space, Distribution of Name space, DNS in the Internet, Resolution                           |
| 15    | Application Layer: WWW and HTTP, Architecture- Client server model, Uniform Resource Locator, HTTP-Transaction, HTTP operational model and client server communication, HTTP message format.                               |

# DEPARTMENT OF COMPUTER SCIENCE

Dyal Singh College, University of Delhi

(ACADEMIC SESSION, 2022-23)

Course: B.Sc(Programme) Computer Science(Part III/ V Semester)  
Paper Code and Name:42343503 Web Design Using HTML5 (TH/PR)

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## FACULTY

Name of Teacher: Mr. Amit Kumar

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## TEACHING PLAN

| Week  | Topics Covered/ Assignments/ Test/Presentations  |
|-------|--|
| 1-2   | Introduction to HTML: What is HTML, HTTP, Client-Server, HTML Documents<br>Basic structure of an HTML document, creating an HTML document, markup tags, heading-paragraphs, line breaks, Blinking, Marquee, HTML tags. |
| 3-4   | <b>Cascading Style Sheets:</b> Concept of CSS, Creating Style Sheet, CSS Properties,   |
| 5-6   | CSS Styling (Background, Text Format, Controlling Fonts), Working with block elements and objects, CSS Id and Class  |
| 7-8   | Box Model (Introduction, Border properties, Padding Properties, Margin properties).  |
| 9-10  | <b>CSS Advanced:</b> CSS Colors, Grouping, Dimension.Display, Positioning, Floating, Align, Pseudo class. Navigation Bar, Image, Attribute sector, Test  |
| 11-12 | <b>Elements of HTML:</b><br>Text, Lists, Tables, Frames, Hyperlinks, Images, Multimedia  |
| 13-14 | Forms and Controls, Assignment   |
| 15    | Creating page Layout and Site Designs  |