Government PG College, Ambala Cantt

# Course File(Session 2023-24) Name of Professor: Sangharsh Saini

**Class: BSc. (CS)-I/2nd Semester**

# Subject code and Name: B23-CSE-201 Web Development

## SYLLABUS

**Maximum Marks: 100 External: 70**

## Minimum Pass Marks: 35 Internal: 30

**Time: 3 hours**

**Note:** Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

## UNIT – I

Introduction to Internet and World Wide Web (WWW); Evolution and History of World Wide Web, Web Pages and Contents, Web Clients, Web Servers, Web Browsers; Hypertext Transfer Protocol, URLs; Searching, Search Engines and Search Tools.

Web Publishing: Hosting website; Internet Service Provider; Planning and designing website; Web Graphics Design, Steps For Developing website

## UNIT –II

Creating a Website and Introduction to Markup Languages (HTML and DHTML), HTML Document Features & Fundamentals, HTML Elements, Creating Links; Headers; Text styles; Text Structuring; Text colour and Background; Formatting text; Page layouts, Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes, HTML5.

## UNIT – III

Introduction to CSS (Cascading Style Sheets): Features, Core Syntax, Types, Style Sheets and HTML, Style Rule Cascading and Inheritance, Text Properties, CSS Box Model, Normal Flow Box Layout, Positioning, and other useful Style Properties; Features of CSS3.

**UNIT – IV**

The Nature of JavaScript: Evolution of Scripting Languages, JavaScript-Definition, Programming for Non-Programmers, Introduction to Client–Side Programming, Enhancing HTML Documents with JavaScript. Static and Dynamic web pages

**Recommended Books/e-resources/LMS:**

**• Raj Kamal, Internet and Web Technologies, Tata McGraw-Hill.**

**• Ramesh Bangia, Multimedia and Web Technology, Firewall Media.**

**• Thomas A. Powell, Web Design: The Complete Reference, Tata McGraw-Hill**

**• Wendy Willard, HTML Beginners Guide, Tata McGraw-Hill.**

**• Deitel and Goldberg, Internet and World Wide Web, How to Program, PHI**

**• David Flanagan, JavaScript: The Definitive Guide: The Definitive Guide.**

**• Kogent Learning, Web Technologies: HTML, JavaScript, PHP, Java, JSP, XML, AJAX – Black Book, Wiley India Pvt. Ltd.**

**Lesson Plan**

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| **Week****No** | **Scheduled Dates** | **Topics to be covered** |
| **1** | **15-17 February** | Introduction to Internet and World Wide Web (WWW); Evolution and History of World Wide Web, Web Pages and Contents, Web Clients, Web Servers, Web Browsers; Hypertext Transfer Protocol, URLs; Searching, Search Engines and Search Tools. |
| **2** | **19-24 February** | Web Publishing: Hosting website; Internet Service Provider; Planning and designing website; Web Graphics Design, Steps For Developing website |
| **3** | **26-2 March** | Creating a Website and Introduction to Markup Languages (HTML and DHTML), HTML Document Features & Fundamentals, HTML Elements, Creating Links; Headers; Text styles; Text Structuring; Text colour and Background; Formatting text; Page layouts, Images; Ordered and Unordered lists; Inserting Graphics;  |
| **4** | **4-9 March** | Table Creation and Layouts; Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes, HTML5. |
| **5** | **11-16 March** | Introduction to CSS (Cascading Style Sheets): Features, Core Syntax, Types, Style Sheets and HTML, Style Rule Cascading and Inheritance, Text Properties |
| **6** | **18-23 March** | CSS Box Model, Normal Flow Box Layout, Positioning, and other useful Style Properties; Features of CSS3. |
| **7** | **1-6 April** | The Nature of JavaScript: Evolution of Scripting Languages, JavaScript-Definition, Programming for Non-Programmers,  |
| **8** | **8-13 April** | Introduction to Client–Side Programming, Enhancing HTML Documents with JavaScript. Static and Dynamic web pages |
| **9** | **15-20 April** | Final Test, Assignments and REVISION of Contents |
| **10** | **22-27 April** | Previous Year Question Papers Discussion |