Government PG College, Ambala Cantt

Course File(Session 2023-24)

Name ofProfessor: Ms. Shalin Bhola

Class: BCA/5TH Semester

Subjectcode: BCA 351

Subject Name: Web Designing Fundamentals

Maximum Marks: 100 **External: 80**
Minimum Pass Marks: 35 **Internal: 20** **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. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit. All questions will carry equal marks.

UNIT – I

Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic Features; Web Browsers; Web Servers; Hypertext Transfer Protocol; URLs; Searching and Web- Casting Techniques; Search Engines and Search Tools

UNIT – II

Steps for Developing Website; Choosing the Contents; Home Page; Domain Names; Internet Service Provider; Planning and Designing Web Site; Creating a Website; Web Publishing: Hosting Site;

UNIT-III

Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line, Creating Links; Headers; Text Styles; Text Structuring; Text Colors and Background; Formatting Text; Page layouts; Insertion of Text, Movement of Text

UNIT – IV

Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists; Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours; Frame Creation and Layouts; Working with Forms and Menus; Working with Buttons like Radio, Check Box

Text Books:

Bayross Ivan, "Web Enabled Commercial Applications Development using HTML, Javascript, DHTML & PHP", BPB Publication, 2005 Powell Thomas, "The Complete Reference HTML• & CSS", Tat Mc-Graw Hill, 2010

REFERENCE BOOKS:

Deitel and Goldberg, "Internet and World Wide Web, How to Program", PHI.•Wendy Willard, "HTML Beginners Guide", Tata McGraw-Hill

COURSEOBJECTIVES

The course objectives of a subject like "Web Designing Fundamentals" typically revolve around providing students with a foundational understanding of the principles, tools, and techniques used in designing effective websites. Here are some common objectives:

1. **Understanding Web Design Principles**: Introduce students to the fundamental principles of web design, including layout, typography, color theory, and visual hierarchy.
2. **HTML and CSS Proficiency**: Teach students the basics of HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) to create and style web pages effectively.
3. **Responsive Design**: Educate students on the concept of responsive design and how to create websites that adapt to different devices and screen sizes, ensuring a seamless user experience across platforms.
4. **User Experience (UX) Principles**: Introduce students to UX design principles and techniques, focusing on creating websites that are intuitive, easy to navigate, and user-friendly.
5. **Accessibility Standards**: Raise awareness about the importance of web accessibility and teach students how to design and develop websites that are accessible to users with disabilities, following WCAG (Web Content Accessibility Guidelines) standards.
6. **Understanding Design Trends and Best Practices**: Explore current design trends, emerging technologies, and best practices in web design, encouraging students to stay updated with industry advancements.
7. **Portfolio Development**: Guide students in building a professional portfolio showcasing their web design projects and skills, preparing them for future job opportunities or further study in the field.

COURSE OUTCOME

The course outcomes for a subject like "Web Designing Fundamentals" typically describe the specific knowledge, skills, and abilities that students are expected to gain by the end of the course. Here are some potential course outcomes:

- **Proficiency in HTML and CSS**: Students will demonstrate the ability to write well-structured HTML code and apply CSS styles to create visually appealing web pages.
- **Understanding of Design Principles**: Students will be able to apply fundamental design principles, such as layout, typography, color theory, and visual hierarchy, to create effective website designs.
- **Responsive Web Design Skills**: Students will understand the principles of responsive design and be able to create websites that adapt seamlessly to different screen sizes and devices.
- **Awareness of Accessibility Standards**: Students will understand the importance of web accessibility and be able to design and develop websites that comply with WCAG (Web Content Accessibility Guidelines) standards.

- **Problem-Solving and Critical Thinking Skills**: Students will develop problem-solving and critical thinking skills through hands-on projects and assignments that require them to apply web design principles to solve real-world problems.
- **Awareness of Design Trends and Best Practices**: Students will stay updated with current design trends, emerging technologies, and best practices in web design, allowing them to adapt to changes in the industry.
- **Creation of a Professional Portfolio**: Students will develop a professional portfolio showcasing their web design projects and skills, which can be used for job applications or further study in the field.

Lesson Plan

Week No	ScheduledDates	Topics to be covered
1	**July 28,2023-** July29,2023	Introduction to Internet and World Wide Web
2	**August 4,2023-** Aug 05,2023	Evolution and History of World Wide Web; Basic Features
3	**Aug11,2023-** Aug 12,2023	Web Browsers; Web Servers;
4	**Aug18,2023-** Aug 19,2023	Hypertext Transfer Protocol;
5	**Aug25,2023-** Aug 26,2023	URLs, Test
6	**Sept 1,2023-** Sept 2,2023	Searching and Web- Casting Techniques
7	**Sept 08,2023-** Sept 09,2023	Search Engines and Search Tools
8	**Sept15,2023-** Sept16,2023	Revision and Practice
9	**Sept 22,2023-** Sept 23,2023	Steps for Developing Website, Choosing the Contents; Home Page; Domain Names;
10	**Sept29,2023-** Sept30,2023	Internet Service Provider
11	**Oct06,2023-** Oct07,2023	Planning and Designing Web Site; Creating a Website;
12	**Oct13,2023-** Oct14,2023	Web Publishing: Hosting Site; Test
13	**Oct20,2023-** Oct21,2023	Introduction to HTML; Hypertext and HTML; HTML Document Features
14	**Oct27,2023-** Oct28,2023	HTML Tags; Header, Title, Body, Paragraph

15	**Nov 3, 2023-** Nov04,2023	Ordered/Unordered Line, Creating Links; Headers
16	**Nov 17,2023-** Nov18,2023	Text Styles; Text Structuring; Text Colors and Background; Formatting Text, Page layouts; Insertion of Text, Movement of Text
17	**Nov24,2023-** Nov25,2023	Images: Types of Images, Insertion of Image, Movement of Image,
18	**Dec 1,2023-** Dec 2,2023	Ordered and Unordered lists; Inserting Graphics;
19	**Dec 08,2023-** Dec 09,2023	Table Handling Functions like Columns, Rows, Width, Colours; Frame Creation and Layouts;
20	**Dec 15,2023-** Dec 16,2023	Working with Forms and Menus; Working with Buttons like Radio, Check Box
21	**Jan05,2024-** Jan06,2024	Revision and Practice