

Web Design

Description

Web Design course is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multipage websites.

Expectations and Goals

Students will learn and explore concepts around designing, creating, and viewing web pages on the Internet. Students will understand the knowhow and can function either as an entrepreneur or can take up jobs in the multimedia and Web site development studio and other information technology sectors. The student will be able to

- Define the principle of Web page design.
- Define the basics in web design.
- Visualize the basic concept of HTML.
- Recognize the elements of HTML.
- Introduce basics concept of CSS.
- Develop the concept of web publishing.

Prerequisites

The Web Design course is designed for complete beginners with no previous background in computer science. The course is highly visual, dynamic, and interactive making it engaging for students new to computer science. The course has a strong focus on creation. Students will be able to use their own personal interests and creativity to drive their development process.

Course Schedule

Module	Topic	Hours
Week 1	Getting Started - What is The Web Brief History of Internet What is World Wide Web Why create a web site Web Standards	4 hrs.
Week 2	HTML - Structuring Websites Introduction to HTML What is HTML HTML Documents Basic structure of an HTML document Creating an HTML document Mark up Tags Heading-Paragraphs Line Breaks HTML Tags	6 hrs.
Week 3	Elements of HTML Introduction to elements of HTML Working with Text Working with Lists, Tables and Frames	4 hrs.

	Working with Hyperlinks, Images and Multimedia Working with Forms and controls.	
Week 4	CSS - Styling Websites Concept of CSS Creating Style Sheet CSS Properties CSS Styling(Background, Text Format, Controlling Fonts) Working with block elements and objects Working with Lists and Tables CSS Id and Class Box Model(Introduction, Border properties, Padding Properties, Margin properties) CSS Advanced(Grouping, Dimension, Display, Positioning, Floating, Align, Pseudo class, Navigation Bar, Image Sprites, Attribute sector) CSS Color Creating page Layout and Site Designs.	6 hrs.
Week 5	Introduction to JavaScript Java Script Language Basics JavaScript Objects JavaScript Scope JavaScript Events JavaScript Strings JavaScript Numbers JavaScript Math JavaScript Arrays JavaScript Boolean JavaScript Comparisons JavaScript Conditions JavaScript Switch JavaScript Loops JavaScript Type Conversion JavaScript RegExp JavaScript Errors JavaScript Debugging JavaScript Functions JavaScript Forms JavaScript HTML DOM	8 hrs.
Week 6	Introduction to jQuery jQuery Syntax jQuery Selectors jQuery Events jQuery Effects jQuery HTML jQuery Traversing jQuery AJAX jQuery Misc.	6 hrs.
Week 7	Introduction to Bootstrap Bootstrap Basics Bootstrap Grids	4 hrs.

	Bootstrap Themes Bootstrap CSS Bootstrap JS	
Week 8	Final Project: In this project, students work in teams to design, prototype, test, and develop a final website	10 hrs.