

# Front-End Web Development – Course Content

## Introduction

Front-End Web Development focuses on building the visible part of websites that users interact with. It involves creating layouts, designing user interfaces, and adding interactivity using web technologies. This course explains how browsers render web pages and how users access websites over the internet. You will learn the role of front-end developers in modern software development. Basic tools like code editors and browsers are also introduced. By the end, learners understand how web pages are structured and displayed.

## HTML

HTML is used to structure the content of a web page. It defines elements such as headings, paragraphs, images, links, and forms. HTML acts as the skeleton of a website and works together with CSS and JavaScript. For example, is used for headings and for paragraphs. Every web page starts with a basic HTML document structure. Understanding HTML is essential for building any website.

## Semantic Elements

Semantic elements describe their meaning clearly to browsers and developers. Examples include header, nav, section, article, and footer. They improve accessibility and SEO. Screen readers benefit from semantic structure. They also make code more readable and maintainable.

## Forms

Forms are used to collect user input like names, emails, and passwords. Common elements include input, label, textarea, and button. Different input types improve usability. Forms are used in login, registration, and contact pages.

## Tables

Tables display data in rows and columns using table, tr, th, and td tags. They are useful for structured data like marks or reports. Tables improve data readability when used correctly.

## Media

Media elements allow embedding images, audio, and video. The img, audio, and video tags are used. Media enhances visual appeal and user engagement.

## CSS

CSS styles web pages by controlling colors, fonts, spacing, and layout. It separates design from content. CSS makes websites visually attractive and maintainable.

## **JavaScript**

JavaScript adds interactivity and dynamic behavior to web pages. It responds to user actions like clicks and form submissions. JavaScript works with HTML and CSS to create modern web applications.