

**SELF-PACED**

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# **CERTIFICATE IN FRONTEND WEB DEVELOPMENT**



## COURSE OVERVIEW

The Certificate in Web Development course offers foundational knowledge in web development using HTML, CSS, and JavaScript. This course is designed to teach you how to create responsive, interactive websites from scratch without relying on additional frameworks. You'll learn essential web development principles, focusing on building strong, foundational skills in front-end web design and interactivity. Through hands-on projects, you'll develop practical expertise in creating and deploying well-structured web applications.

## COURSE OBJECTIVE

The primary goal of this course is to provide students with a deep understanding of HTML, CSS, and JavaScript. By the end of the course, students will be able to create fully functional, responsive websites, develop interactive web pages, handle user input, validate forms, and optimize website performance. The course also includes best practices for writing clean and efficient code, as well as techniques for maintaining code quality.

## SKILLS YOU WILL LEARN

**HTML:** Structure and organize web content effectively with HTML tags, attributes, and semantics.

**CSS:** Style websites with CSS, learning techniques for layout, positioning, animations, transitions, and responsive design.

**JavaScript Basics:** Gain a solid understanding of JavaScript fundamentals, including variables, functions, loops, and events.

**DOM Manipulation:** Use JavaScript to dynamically update and interact with HTML elements, creating interactive user experiences.

**Responsive Design:** Make websites adaptable to various screen sizes and devices using CSS media queries.

**JavaScript Events:** Handle user interactions such as clicks, hovers, and form submissions to enhance website interactivity.

## PROGRAM HIGHLIGHTS

Instructor- Dr Priti Maheshwary

Duration -6 Months

Eligibility- 10+2

No. of Modules - 3

Language-Bilingual

Shareable certificate- Yes



## Module 1 HTML

- Session 1 HTML language: A basic introduction
- Session 2 Basic tags in HTML
- Session 3 Lists in HTML
- Session 4 Tables in HTML
- Session 5 Images in HTML
- Session 6 Frames in HTML
- Session 7 Introduction to Typography



## Module 2 CSS

- session 1 Introduction to CSS
- session 2 How to add css to html document
- session 3 CSS Selectors
- session 4 Practical Selectors
- session 5 Styling Backgrounds
- session 6 Practical Backgrounds
- session 7 Styling Text and Fonts
- session 8 Practical styling text and fonts
- session 9 Styling Links
- session 10 CSS Box Model
- session 11 Units in CSS
- session 12 CSS Positioning
- session 13 CSS flex Box Display



## Module 3 Java Script

- session 1 Introduction to JavaScript?
- session 2 Variables in Javascript
- session 2 Practical Variables in Javascript
- session 3 DataTypes
- session 3 Practical Data Types
- session 4 Operators Arithmetic
- session 5 Relational Operators
- session 6 Logical Operators
- session 7 Conditional statements
- session 8 Loops in JavaScript
- session 9 Arrays in Javascript
- session 10 Functions
- session 11 DOM manipulation
- session 12 Events
- session 13 Events Handlers
- session 14 Callbacks
- session 15 Ajax





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