

Website Designing & Development Outline

Objective of Training

- To guide from basic to advanced levels of website designing and development.
- To provide both theoretical knowledge and practical implementation.
- To help them understand the essential use of each language and its tags/components.

1. Introduction

Introduction to Visual Studio Code (VS Code).

Introduction & Installation of XAMPP.

2. HTML5

Basics of HTML structure and essential tags.

Working with text formatting, links, images, tables, and forms.

Introduction to semantic HTML5 tags.

3. CSS3

CSS basics, including syntax and selectors.

Introduction to the box model and positioning.

Typography, colors, backgrounds, and responsive design.

4. Bootstrap

Overview of Bootstrap framework.

Using Bootstrap for responsive website design.

5. Responsive Website Design

Understanding media queries and flexible layouts.

Creating mobile-friendly designs.

6. JavaScript (JS)

Introduction to JavaScript.

Variables, data types, and operators.

Conditional statements and loops.

Functions and event handling.

DOM manipulation (getElementById, querySelector).

Form validation with JavaScript.

ES6 features (let, const, arrow functions, template literals).

Asynchronous JavaScript (Promises, Async/Await).

6. PHP Basics

Introduction to PHP and its syntax.

Using echo, print statements, and variables.

PHP constants and types (int, string, float, etc.).

7. PHP Functions and Loops

Working with if-else, switch statements, and loops.

Understanding functions with arguments and return values.

Exploring string functions and date/time handling.

8. PHP and MySQL Integration

Connecting PHP to a database and CRUD operations.

Inserting, updating, deleting, and searching data.

Form handling with GET and POST methods.

9. File Handling and Validation

Uploading files using the \$_FILES method.

Form validation using JavaScript.

Introduction to mail functions and file management.

10. Deployment

Introduction to cPanel, domains, hosting, and servers.

Deploying websites to live servers.

11. Projects

Working on projects from basic to advanced levels.

Creating real-world examples, including portfolios and e-commerce websites.

Practical Exercise for Students

Hands On Practice With Different Projects

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