**Course Title: Web Design and Development**

**(Including: Advance HTML, CSS, Bootstrap framework, JavaScript, jQuery, PHP, MySQL, Final Project)**

**Duration**: 3 Months (5 Days a Week, 2 Hours per Day)

**Week 1: Introduction to Web Design & HTML Basics**

* **Day 1**: Introduction to Web Design and Development, Web Technologies Overview
* **Day 2**: Introduction to HTML, Basic HTML Structure, Tags: Headings, Paragraphs
* **Day 3**: Lists, Links, and Images
* **Day 4**: Tables in HTML
* **Day 5**: Forms in HTML (Input Types, Textareas, Buttons)

**Week 2: Advanced HTML and Introduction to CSS**

* **Day 1**: Last Week Assignments, Solve Students Issues and Bug Fixing
* **Day 2**: Introduction to CSS: Syntax, Selectors, Inline, Internal, and External CSS
* **Day 3**: CSS Styling: Colors, Fonts, Text, Backgrounds and Div Tag
* **Day 4**: Introduction to Box Model: Margins, Padding, and Borders
* **Day 5**: CSS Styling: Units, Pseudo Classes and Pseudo Elements

**Week 3: CSS Layouts and Styling**

* **Day 1**: Transforms, Transition and filters
* **Day 2**: CSS Positioning: Static, Relative, Absolute, Sticky and Fixed
* **Day 3**: Flexbox: Aligning and Distributing Space
* **Day 4**: CSS Grid Layout: Building Complex Layouts
* **Day 5**: Lab: Font Awesome, 4v, 5v, 6v and Keyframes

**Week 4: Bootstrap Framework**

* **Day 1**: Last Week Assignments, Solve Students Issues and Bug Fixing
* **Day 2:** Responsive design With Media Query
* **Day 3**: Full Page PSD 1 Design
* **Day 4**: Full Page PSD 2 Design
* **Day 5**: Full Page PSD or Website Page Assignment with Responsiveness

**Week 5: Bootstrap Framework**

* **Day 1**: Last Week Assignments, Solve Students Issues and Bug Fixing
* **Day 2**: Introduction to Bootstrap: Framework Overview and Installation
* **Day 3**: Bootstrap Components: Buttons, Cards, and Modals
* **Day 4**: Bootstrap Forms and Navigation Bars
* **Day 5**: Bootstrap Grid System: Rows, Columns, containers and offsets
* **Weekend Assignment**: Full Page PSD or Website Page Assignment with Responsiveness

**Week 6: Introduction to JavaScript**

* **Day 1**: Introduction to JavaScript: Variables, Data Types, and Operators
* **Day 2**: JavaScript Functions: Defining and Calling Functions
* **Day 3**: Control Structures: If-Else, Loops (for, while)
* **Day 4**: JavaScript Events and DOM Manipulation
* **Day 5**: Lab: Adding Interactivity to Websites with JavaScript

**Week7: JavaScript Advanced**

* **Day 1**: Arrays and Objects in JavaScript
* **Day 2**: Working with Dates and Timers in JavaScript
* **Day 3**: JavaScript Form Validation Techniques
* **Day 4**: Error Handling and Debugging in JavaScript
* **Day 5**: Implementing Form Validation and DOM Manipulation

**Week 8: Introduction to jQuery**

* **Day 1**: Introduction to jQuery: How to Include jQuery in a Project Selectors and Events
* **Day 2**: jQuery Effects: Hiding, Showing, Fading, and Sliding Elements
* **Day 3**: jQuery DOM Manipulation: append, Prepend, before, after, parent, children and Siblings
* **Day 4**: jQuery DOM Manipulation: Add, Remove, and Toggle Classes
* **Day 5**: Setter and Getters (text (), html (), Val (), attr())

**Week 9: Introduction to PHP**

* **Day 1**: Introduction to PHP: Setting Up a PHP Environment (XAMPP)
* **Day 2**: PHP Syntax, Variables, and Data Types
* **Day 3**: PHP Conditional Statements and Loops
* **Day 4**: Working with Arrays and Strings in PHP
* **Day 5**: PHP Functions: Defining and Calling Functions

**Week 9: PHP working with MySQL**

* **Day 1**: Introduction to MySQL: Basics Installation, Creating Databases and Tables in MySQL
* **Day 2**: Connecting PHP with MySQL Database
* **Day 3**: Working with Forms: GET and POST Methods in PHP
* **Day 4**: CRUD Operations - Users Table (Create) in MySQL
* **Day 5**: CRUD Operations - Users Table (Read) in MySQL

**Week 10: PHP working with MySQL**

* **Day 1**: CRUD Operations - Users Table (Update) in MySQL
* **Day 2**: CRUD Operations - Users Table (Delete) in MySQL
* **Day 3**: Creating Databases and Tables in MySQL
* **Day 4**: PHP Sessions and Cookies: User Authentication
* **Day 5**: Implementing a User Login and Registration System with PHP

**Week 11: Advanced PHP and MySQL Integration**

* **Day 1**: Advanced SQL Queries: Joins, Indexes, and Grouping
* **Day 2**: Building a Todo Task System with PHP and MySQL for Multi-Users Day 1
* **Day 3**: Building a Todo Task System with PHP and MySQL for Multi-Users Day 2
* **Day 4**: Building a Todo Task System with PHP and MySQL for Multi-Users Day 3
* **Day 5**: Managing Database Security and Preventing SQL Injection

**Week 12: Final Project**

* **Day 1**: Project Planning: Requirements, Design, and Database Schema
* **Day 2**: Building the Front-End with HTML, CSS, Bootstrap
* **Day 3**: Implementing JavaScript and jQuery for Interactivity
* **Day 4**: Integrating PHP and MySQL for Backend Functionality
* **Day 5**: Final Project Presentation and Assessment

**Assessment & Certification**

* **Final Project**: Students will create a fully functional web application using HTML, CSS, Bootstrap, JavaScript, PHP, and MySQL. The project will be evaluated based on functionality, design, and code quality.
* **Certification**: Upon successful completion of the course, students will be awarded a certificate of Participation from LOGIX College. Student can also appear for government exam after completing the all requirements.