



Skills Education

آگے بڑھو پاکستان



FRONTEND DEVELOPMENT

Html, css, js

Bootstrap

DURATION 02 MONTH

- 2 Month Hands On Training
 - One Month Internship



Classes In a Week



**Student Coordinator
0318-6107908**



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MODULE # 01

Introduction to Frontend Development

- Overview of frontend development
- Importance of HTML, CSS & JavaScript
- Brief history of web development
- Introduction to Bootstrap framework

MODULE # 02

HTML Basics

- Creating a Fiverr account
- What is HTML?
- Understanding HTML tags & elements
- Structuring a basic HTML document
- Semantic HTML for better accessibility and SEO

MODULE # 03

CSS Fundamentals

- Introduction to CSS
- Different ways to apply CSS: inline, internal, and external
- Selectors and specificity
- Basic styling properties: color, font, margin, padding

MODULE # 04

CSS Grid

- Introduction to CSS Grid
- Creating grid containers and items
- Grid lines, tracks, and gaps
- Responsive grid layouts with media queries

MODULE # 05

CSS Layout

- Box model: understanding padding, margin, border
- Display property and its values
- Positioning: static, relative, absolute, fixed
- CSS Flexbox for flexible layout design

MODULE # 06

Responsive Web Design

- What is responsive web design?
- Media queries for responsive styling
- Mobile-first approach
- Testing and debugging responsive designs

MODULE # 07

JavaScript Basics

- Introduction to JavaScript
- Variables and data types
- Control flow: loops and conditional statements
- Functions and scope

MODULE # 08

DOM Manipulation

- Understanding the Document Object Model (DOM)
- Accessing DOM elements with JavaScript
- Manipulating DOM elements: adding, removing, modifying
- Event handling in JavaScript



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MODULE # 09**JavaScript Events**

- Introduction to JavaScript events
- Common DOM events: click, hover, submit
- Event listeners and event handling functions
- Event propagation and delegation

MODULE # 10**Introduction to Bootstrap**

- What is Bootstrap?
- Advantages of using Bootstrap
- Bootstrap grid system for responsive layout
- Bootstrap components: navbar, buttons, forms

MODULE # 11**Bootstrap Components (Part 1)**

- Bootstrap typography and utilities
- Bootstrap navigation components: navbar, tabs, breadcrumbs
- Bootstrap buttons and button groups
- Bootstrap alerts and badges

MODULE # 12**Bootstrap Components (Part 2)**

- Bootstrap forms and form controls
- Bootstrap grid system in depth
- Bootstrap cards for content display
- Bootstrap modals for interactive dialogs

MODULE # 13**Advanced CSS Techniques**

- ICSS preprocessors: SASS/SCSS and LESS
- CSS animations and transitions
- CSS frameworks vs. custom styling
- Best practices for maintaining CSS code

MODULE # 14**JavaScript ES6 Features**

- Introduction to ES6 (ECMAScript 2015)
- Arrow functions and template literals
- Destructuring and spread/rest operators

MODULE # 15**Introduction to Frontend Frameworks**

- Overview of frontend frameworks: React, Vue.js, Angular
- Pros and cons of using frontend frameworks
- Setting up a basic project with React/Vue.js/Angular
- Introduction to component-based architecture



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MODULE # 16

Asynchronous JavaScript

- Introduction to asynchronous programming
- Callbacks vs. Promises vs. Async/Await
- Fetch API for making HTTP requests
- Error handling in asynchronous JavaScript

MODULE # 17

Introduction to Version Control (Git)

- What is version control?
- Introduction to Git and GitHub
- Basic Git commands: clone, add, commit, push, pull
- Collaborative development with Git

MODULE # 18

Web Performance Optimization

- Importance of web performance optimization
- Tools for performance measurement and analysis
- Techniques for improving website speed: minification, compression, caching
- Optimizing images and assets for the web

MODULE # 19

Accessibility in Web Development

- What is web accessibility?
- WCAG (Web Content Accessibility Guidelines)
- Designing accessible interfaces: keyboard navigation, semantic HTML
- Testing for accessibility with screen readers and other tools

MODULE # 20

Project Showcase and Conclusion

- Recap of key concepts covered in the course
- Showcase of student projects and portfolios
- Tips for further learning and career development in frontend development
- Conclusion and final remarks



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