National College of Technology Sargodha
NCT

Web Designing And Development With Custom

Front-end

- HTML
- CSS
- J,QUERY
- BOOT STARP5

Back-end

- PHP
- SQL
- DATA BASE

Three Months Outline

1st Week: HTML Basics

Class 1

- Introduction to Web Development
- What is HTML
- HTML Structure: <!DOCTYPE>, <html>, <head>, <body>
- Text Tags: <h1> to <h6>, <p>, <br>, <hr>

Class 2

- Links <a>
- Images <img>
- Lists: <ul>, <ol>,
- Tables: <table>, <tr>, <td>, <th>

Class 3

- Forms Introduction
- Input types: text, password, checkbox, radio
- Labels, Textareas, Buttons

Class 4

- Semantic Tags: <section>, <article>, <header>, <footer>, <nav>
- Practice Task: Create a resume page using HTML only

2nd Week: CSS Basics

Class 5

- What is CSS
- Types of CSS: Inline, Internal, External
- Syntax, Selectors

Class 6

- Colors, Backgrounds
- Font Styling, Text Alignment
- Borders, Padding, Margin

Class 7

- Box Model in detail
- Display: block, inline, inline-block
- Position: static, relative, absolute, fixed

Class 8

- CSS Flexbox Basics
- Basic Hover Effects
- Practice: Style the HTML resume from Week 1

3rd Week: CSS Advanced + Mini Layout Project

Class 9

- Advanced Flexbox layouts
- Responsive Design Introduction
- Media Queries

Class 10

- CSS Grid Basics
- Difference between Flexbox vs Grid
- Columns & Rows using Grid

Class 11

- Transitions, Transform, Animations (basics)
- Button Hover Effects

Class 12

- Mini Layout Project: Personal Portfolio Page using HTML + CSS
- (2-page site with navigation and contact form layout)

4th Week: Bootstrap 5

Class 13

- Introduction to Bootstrap
- CDN Setup & Grid System
- Containers, Rows, Columns

Class 14

- Bootstrap Buttons, Cards, Alerts
- Navbar, Footer, Forms

Class 15

- Carousel, Modal, Collapse
- Utility Classes, Icons

Class 16

- Project: Create a Responsive Landing Page using Bootstrap

5th Week: JavaScript Basics

Class 17

- What is JavaScript
- Variables (let, const, var)
- Data Types
- Console.log, Comments

Class 18

- Operators, Conditions (if, else, else if)
- Comparison & Logical Operators
- User Input using prompt()

Class 19

- Loops: for, while
- Arrays, Array methods (basic)

Class 20

- Functions: declaration, call
- Practice Task: Calculator logic using JS

6th Week: DOM & Events

Class 21

- DOM Intro
- Selecting Elements: getElementById, querySelector
- Changing Content & Styles with JS

Class 22

- Events: onclick, onmouseover, onchange
- Form Validation Basics

Class 23

- Toggle menu, Show/hide elements
- Small to-do list logic using DOM

Class 24

- Mini JS Project: Interactive Quiz or To-Do App

7th Week: PHP Basics

Class 25

- What is PHP
- Syntax, Variables
- Echo, Comments, Data Types

Class 26

- Conditions & Loops in PHP
- Arrays & Associative Arrays

Class 27

- Forms with PHP (GET & POST)
- Superglobals $_POST, $_GET

Class 28

- PHP Form Validation + Practice Task

8th Week: PHP with MySQL Intro

Class 29

- What is Database
- MySQL Introduction
- XAMPP Installation, PHPMyAdmin

Class 30

- Create Database & Table
- Connect PHP to MySQL (mysqli_connect)

Class 31

- Insert, Fetch Data from Database using PHP
- Display on HTML Table

Class 32

- Mini Task: Create Registration Form (store data in database)

9th Week:Final Project Start (Frontend + Backend Integration)

Class 33

- Project Idea: Student Management System / Contact Manager
- Create Frontend Pages (HTML + Bootstrap)

Class 34

- Form Handling with PHP
- Database Setup for Project

Class 35

- Insert, View, and Delete Records
- Style with Bootstrap

Class 36

- Edit/Update Feature
- Project Part-1 Complete

10th Week:Final Project Completion + Revision

Class 37

- Final Project Cleanup + Validations
- Add JS alerts, confirmations

Class 38

- Project Deployment (on localhost)
- Review All Code

Class 39

- Final Presentation / Code Walkthrough
- Tips for Portfolio Upload

Class 40

- Mock Interview / Q&A Session / Feedback

Next three Weeks:Final Deliverables for Students:

Class 41 to 50

- HTML Resume Page
- CSS Personal Portfolio
- Bootstrap Landing Page
- JavaScript Mini App (Calculator / To-Do)
- PHP Registration System
- Final Full Project (Frontend + PHP + MySQL)
- After this working on react.js or angular.js