Frontend Web Development Curriculum

Overview

Our frontend curriculum focuses on fundamental principles essential for all areas of study. Through core courses, students explore computational, mathematical, and statistical foundations, while developing critical thinking and communication skills.

Curriculum Outline

- Introduction to HTML
- Introduction to CSS
- Advanced CSS
- Introduction to Javascript
- Advance Javascript
- Frontend Frameworks
- Accessibility and Performance
- Final Project

FRONTEND WEB DEVELOPMENT PROGRAM SCHEDULE	
Session	**Description**
1	**Introduction to HTML**
	Basic HTML structure
	HTML tags and attributes
	Creating headings, paragraphs, lists, links and Adding images and videos
	Understanding semantic HTML
2	**Introduction to CSS**
	Basic CSS syntax
	Styling text, links, and backgrounds
	Creating layouts with CSS box model
	Understanding CSS selectors and specificity
	Using floats and positioning for layout
3	**Advanced CSS**
	Responsive web design with media queries
	Creating flexible layouts with CSS Grid and Flexbox
	Advanced styling techniques with CSS3
	Creating animations and transitions with CSS

4	**Soft Skill Training / Mentorship / Career fair**
	Active listening, Communication, Problem solving
	Resume writing
5	**Introduction to JavaScript**
	Basic JavaScript syntax
	Data types and variables
	Conditional statements and loops
	Functions and objects
	Understanding the Document Object Model (DOM)
6	**Advanced JavaScript**
	Event handling and DOM manipulation with JavaScript
	Using jQuery for DOM manipulation
	Introduction to ES6 syntax
	Creating asynchronous code with Promises and Async/Await
7	**Frontend Frameworks**
	Introduction to popular frontend frameworks such as React, Vue, or Angular
	Building a simple web application using a frontend framework
	Understanding component-based architecture
	Working with APIs to fetch and manipulate data
8	**Soft Skill Training / Mentorship / Career fair**
	Job Interview Preparation
	Excursion
9	**Accessibility and Performance**
	Understanding the importance of accessibility
	Creating accessible HTML and CSS
	Performance optimization techniques
	Using tools to measure and improve web performance
10	**Final Project**
	Working on a final project to showcase the skills learned throughout the training
	Building a responsive and accessible web application using frontend frameworks and best practices
	Presenting the final project to the class and receiving feedback