WEB
Development

Master Web Development from Basics to Brilliance

GET IN TOUCH!

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ABOUT US

Welcome to Digital Deta Labs, where innovation meets education. At Digital Deta Labs, we are dedicated to empowering individuals with the skills and knowledge needed to excel in today's fast-paced digital world. Our comprehensive courses are designed to cater to a diverse range of interests and career goals, ensuring our students are well-equipped for the future.At Digital Deta Labs, we believe in the power of education to transform lives.Join us and embark on a journey of discovery, innovation, and professional growth. Together, let's build the future.

DESIGNER

EDITOR

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Course Information

Web Development

	Term	Class Days
FRONT END	3 months	Monday Wednesday Friday
FULL-STACK	5 months	Tuesday Thursday Saturday

Course Description

Course Overview

This comprehensive Web Development Course is designed to equip students with the skills and knowledge necessary to create dynamic, interactive, and professional web applications. The course is divided into two main modules: Frontend Development and Full Stack Development. Students will start with the foundational aspects of web design and development, progressing to advanced frontend techniques, and finally, delve into backend development and integrating AI technologies into web applications.

Learning Objectives

1.Mastering Web Foundations with HTML and CSS.

2. Developing Dynamic Interactivity with JavaScript.

3. Gaining Proficiency in Advanced Frontend Techniques.

4. Acquiring Backend Development Skills with Node.js and MongoDB.

5. Integrating AI into Web Applications.

FRONTEND

<html>

Begin anew

Introduction to HTML

1. What is HTML and History
2. Anatomy of HTML Tags and Structure of HTML Documents
3. HTML Content Models (Headings, Lists, Tables)
4. Creating Links and Displaying Images
5. Character Entities and New Semantic Tags

<css>

Style with us

Introduction to CSS 3

1. Elements, Class, and ID Selectors
2. Combining Selectors
3. Pseudo Classes and Pseudo Elements
4. Media Queries and Responsive Design
5. The Box Model and Positioning (Floating, Relative, Absolute)
6. CSS Flexbox and Grid System
7. CSS Animations and Bootstrap Framework

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Script the Web

Introduction to JavaScript

1. JS Data Types and Variables
2. Variable Functions and Scope
3. Conditional Statements and Loops
4. JS Objects and Object Literals
5. Closures and the "this" Keyword
6. JS Regular Expressions
7. JS Events and Validation
8. Browser Object Model (BOM) and Cookies
9. Set Timeout, Set Interval, and JS Hoisting
10. Session Storage, Local Storage, and JS Classes

<js(adv)>

Modern code mastery

Advanced JavaScript

1. Array and Object Methods
2. Destructuring and Spread Operator
3. Modules and Fetch Method
4. Ternary Operator
5. Arrow Functions and Variable Declarations (var, let, const)

BACKEND

<nodejs>

Server-side revolution

Introduction to Node.js (SERVER)

1. Import & Require
2. Server-Side JavaScript and Creating a Web Server
3. Introduction to JavaScript Frameworks
4. Express Web Application Framework
5. Routing, Middleware, and Templates Authentication

<mongoDB>

Quick start

Introduction to MongoDB

1. What is MongoDB?
2. Advantages and Disadvantages
3. Setting up
4. Create, update, delete database
5. Inserting a document, query, update, delete

WEB DEVELOPMENT WITH AI

1. Creating a navbar
2. Creating a form
3. Creating a website using AI

Special Class on React

WEB DEVELOPMENT WITH AI

By the end of this course, students will have :

1. Proficiency in HTML for creating structured web content.

2. Skills in CSS for designing responsive and visually appealing web pages.

3. Competency in JavaScript for interactive web functionalities.

4. Understanding of Advanced JavaScript techniques for enhanced web application performance.

5. Knowledge in Node.js for building server-side applications.

6. Experience in using MongoDB for database management.

7. Capability of integrating AI features into web applications.

8. Understanding of full-stack development workflows and best practices.

9. Ability to deploy and maintain web applications in a production environment.

10. Familiarity with web security principles and practices.

DOS AND DON'TS

Things to do in the Lab

1. Experiment with different technologies.
2. Collaborate with peers.
3. Test code across browsers/devices.
4. Document code and project progress.
5. Seek feedback from instructors/professionals.

Things not to do in a Lab

1. Ignore browser compatibility.
2. Blindly copy-paste code.
3. Neglect backup of work.
4. Solely rely on online tutorials.
5. Rush through tasks without understanding.