

# 4-Month MERN Stack Full Stack Development Course

## Program Overview

Our 480-hour MERN Stack Full Stack Development Course is meticulously designed to equip you with in-depth knowledge and hands-on experience in building robust web applications. With 4 hours of daily learning spread across four months, this course ensures comprehensive coverage of essential web development technologies.

## Course Structure

Topic	Duration
Introduction to Web Development	8 hours
HTML & CSS Basics	32 hours
JavaScript Fundamentals	48 hours
Advanced JavaScript & DOM	32 hours
React Basics & Advanced Features	64 hours
State Management with Redux	48 hours
Node.js (APIs, Middleware)	48 hours
Express.js (Authentication, Routing)	40 hours
MongoDB (CRUD, Aggregation)	48 hours
Git & Advanced Version Control	16 hours
Capstone Project (Hands-on)	96 hours

## Detailed Syllabus

### Introduction to Web Development

- Understanding Web Development
- Overview of Frontend and Backend Development
- Tools and Environments

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## HTML & CSS Basics

- Creating structured web pages with HTML5
- Styling and layout designs using CSS3
- Responsive design with Flexbox and Grid

## JavaScript Fundamentals

- Variables, data types, and operators
- Loops, conditions, and functions
- Event handling and error handling

## Advanced JavaScript & DOM

- Asynchronous programming with Promises and Async/Await
- DOM manipulation and event listeners
- Modern JavaScript features (ES6+)

## React Basics & Advanced Features

- Functional components and hooks
- Lifecycle methods and performance optimization
- Routing with React Router

## Course Highlights

- 100% Placement Support: We provide career guidance and placement opportunities.
- Project-Based Learning: Gain practical knowledge by building real-world applications.
- Certifications:
  - Full Stack Certificate (MERN Stack)
  - JavaScript Developer Certificate

## **4-Month MERN Stack Full Stack Development Course**

- Advanced React Developer Certificate
- Node.js and Express.js Specialist Certificate
- MongoDB Professional Certificate
- Git & Version Control Expert Certificate
- Frontend Development Pro Certificate
- Backend Development Specialist Certificate
- Web Development Project Certificate
- Advanced Web Development Capstone Certificate