



MERN Full-Stack Development Course Details

◆ Course Overview

This MERN course is designed to take you from beginner to professional full-stack web developer. You will learn how to build complete web applications using **MongoDB, Express.js, React.js, and Node.js**.

The course includes hands-on projects, assignments, and real-world application building.

◆ What You Will Learn

1. HTML, CSS & JavaScript Fundamentals

- Basics of web development
 - Responsive design
 - ES6+ JavaScript concepts
 - DOM manipulation
 - API handling (fetch/axios)
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2. React.js (Frontend Development)

- React components
 - Props & State
 - React Hooks (useState, useEffect, etc.)
 - React Router
 - Context API / Redux
 - Form handling
 - API integration
 - Building dynamic UI
 - Deployment of React apps
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3. Node.js & Express.js (Backend Development)

- Node.js basics



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- Express.js framework
 - REST API development
 - Middleware
 - Authentication & Authorization (JWT)
 - File upload
 - Error handling
 - Connecting backend with frontend
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4. MongoDB (Database)

- MongoDB basics
 - CRUD operations
 - Mongoose ORM
 - Data validation & schema design
 - Aggregation and indexing
 - Relationship between collections
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5. Full-Stack Integration

- Connecting React frontend with Node backend
 - User authentication flow
 - Admin dashboard
 - Payment gateways (optional)
 - Building complete full-stack projects
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◆ Projects You Will Build

- To-Do App
- Authentication system



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- E-commerce website
 - Blogging website
 - Social media style app (optional)
 - Portfolio website (final project)
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◆ Tools & Technologies

- VS Code
 - Git & GitHub
 - Postman
 - MongoDB Compass
 - NPM/Yarn
 - Deployment platforms (Vercel, Netlify, Render)
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◆ Course Duration

- **2 to 3 months** (depending on speed)
 - Includes projects, practice sessions, and assignments
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◆ Who Can Join

- Beginners
- Students
- Working professionals
- Anyone who wants to become a full-stack developer