

A Venture of Digitrix Infotech Pvt Ltd


Simplifying Successful Results

Fast-Track MERN Stack Development Program – 6 Weeks

 **Call / WhatsApp: 9041417268**

 **Level:** Beginner to Job-Ready

 **Best For:** College students, freshers, aspiring web developers

 **Goal:** A fast-track training program to learn Full-Stack Web Development using MongoDB, Express.js, React.js, and Node.js.

Students will learn how to build responsive websites, backend APIs, and complete MERN stack applications with hands-on practical projects.

Highly suitable for internships, software development roles, startups, freelancing, and beginner full-stack opportunities.

★ **Week 1 – Web Fundamentals & JavaScript Basics**

Explanation:

Students build strong web development fundamentals and understand how websites and web applications work.

Topics Covered:

- Introduction to Web Development
- Frontend vs Backend vs Database

- HTML5 Basics
- CSS3 Fundamentals
- Responsive Web Design
- JavaScript Introduction
- Variables, Data Types & Operators
- Functions, Arrays & Objects
- DOM Manipulation Basics

Practical:

- Create responsive web pages
- Build interactive UI using JavaScript
- Mini JavaScript practice tasks

★ Week 2 – Advanced JavaScript & Backend Introduction

Explanation:

Students move into advanced JavaScript concepts and begin backend development using Node.js.

Topics Covered:

- ES6+ Features
- Arrow Functions
- Destructuring
- Async JavaScript Basics
- Promises & Async/Await
- Introduction to Node.js
- NPM & Package Management
- Creating Basic Servers

- Introduction to Express.js
- Routing & Middleware Basics

Practical:

- Build simple backend server
- Create basic APIs
- API testing using Postman

★ Week 3 – MongoDB & Backend API Development

Explanation:

Students learn database concepts and build backend APIs with authentication.

Topics Covered:

- Introduction to MongoDB
- Collections & Documents
- CRUD Operations
- Mongoose Basics
- Schemas & Models
- REST API Development
- Authentication Basics
- JWT Authentication Overview
- Protected Routes Concept

Practical:

- Build CRUD APIs
- User Authentication System
- Backend mini project

★ Week 4 – React.js Frontend Development

Explanation:

Students learn React.js fundamentals and build dynamic frontend applications.

Topics Covered:

- Introduction to React.js
- Components & JSX
- Props & State
- React Hooks:
 - useState
 - useEffect
- Conditional Rendering
- React Router Basics
- Forms Handling
- API Integration using Axios/Fetch

Practical:

- Build React UI screens
- Login/Register pages
- Connect frontend with backend APIs

★ Week 5 – Full MERN Stack Integration

Explanation:

Students combine frontend, backend, and database into a complete MERN application.

Topics Covered:

- MERN Architecture Overview
- Connecting React with Node.js & MongoDB
- Authentication Flow
- CRUD Operations in MERN Apps
- Protected Routes
- State Management Basics
- Folder Structure & Best Practices

Practical:

- Build complete MERN mini application
- Authentication + Dashboard integration
- API-connected frontend project

★ Week 6 – Mini Project & Career Preparation

Explanation:

Students complete a mini MERN project and prepare for internships and developer roles.

Topics Covered:

- Project Development Workflow
- Debugging Basics
- Git & GitHub Introduction
- Deployment Overview
- Resume Guidance
- Portfolio Building
- Interview Preparation Basics

Mini Project Options:

- Task Management App

- Blog Website
- Notes Application
- Expense Tracker
- Simple E-commerce App

Practical:

- Build full MERN mini project
- Push project to GitHub
- Live deployment overview

★ Final Outcomes After 6 Weeks

Students will be able to:

- Understand MERN stack fundamentals
- Build responsive frontend applications
- Create backend APIs using Node.js & Express.js
- Work with MongoDB databases
- Connect frontend with backend APIs
- Build beginner-level full-stack applications
- Prepare for internships & advanced MERN learning

Job Roles After Course

- MERN Stack Trainee
- Junior Web Developer
- React.js Beginner Developer
- Backend Intern
- Full-Stack Development Intern

★ Why This Course is Popular

- High demand for MERN developers
- One language (JavaScript) for full-stack development
- Beginner-friendly fast-track roadmap
- Real-world practical learning
- Ideal for internships & freelancing
- Strong foundation for advanced full-stack development

💰 Freshers Salary Range

₹10,000 – ₹15,000/month *(based on skills & projects)*

📍 Our Location

📍 Digitrix Infotech Pvt Ltd.

3rd Floor, E-300, Industrial Area, Sector 75, Sahibzada Ajit Singh Nagar, Punjab

🌐 Our Websites

🔗 Academy: <https://www.digitrixacademy.com/>

🔗 Company: <https://www.digitrix.com/>

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👉 **Build real-world projects & portfolio**

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