

# MERN Stack

Duration:	7 Weeks
Level:	Beginner
Price:	Rs. 95000

## Short Description

Take the MERN Stack Certification Course from FirstVITE to become an expert in full stack web development. Learn about Express.js, React, Node.js, and MongoDB through hands-on projects. Get placement assistance and become job-ready in just a few weeks.

## Course Curriculum

### Week 1: Introduction to Web Development & JavaScript

- HTML5 & CSS3 Basics
- JavaScript
- DOM Manipulation
- ES6+ Features

### Week 2: Node.js Fundamentals

- Introduction to Node.js
- NPM & Package Management
- Modules & File System
- Event Loop & Asynchronous Programming

### Week 3: Express.js Framework

- RESTful APIs
- Routing & Middleware
- Error Handling
- Connecting Express with MongoDB

### Week 4: MongoDB & Mongoose

- Introduction to MongoDB

- CRUD Operations
- Data Models & Schemas
- Connecting MongoDB to Node

### **Week 5: React.js Development**

- JSX & React Components
- Props & State
- React Router
- Lifecycle Methods & Hooks
- Forms & Event Handling

### **Week 6: MERN Integration & Full-Stack Architecture**

- Connecting React with Express & Node
- REST APIs Integration
- JWT Authentication
- MVC Architecture

### **Week 7: The final capstone project and deployment**

- Project Planning & Structure
- Building UI, APIs, and Database
- Deployment on Cloud (Vercel/Render/Heroku)
- GitHub & Version Control

## **Skills**

- HTML/CSS
- JavaScript
- React.js
- Node.js
- Express.js
- MongoDB
- REST API
- JWT Authentication
- Git & GitHub

- Mongoose
- Deployment
- Debugging

## Prerequisites

- Basic understanding of computers and how web pages work
- Familiarity with HTML, CSS, and JavaScript is an added advantage
- A laptop or desktop with a stable internet connection
- Willingness to learn and practice consistently

## What You Will Learn

- Build full-stack web applications using MongoDB, Express.js, React, and Node.js
- Develop dynamic front-end interfaces with React and manage state effectively
- Design and manage back-end APIs using Node.js and Express
- Store and retrieve data using MongoDB with Mongoose
- Implement user authentication and secure applications using JWT
- Deploy full-stack applications to cloud platforms like Vercel, Render, or Heroku
- Use Git and GitHub for version control and collaboration
- Work on real-time projects and a final capstone project to showcase skills