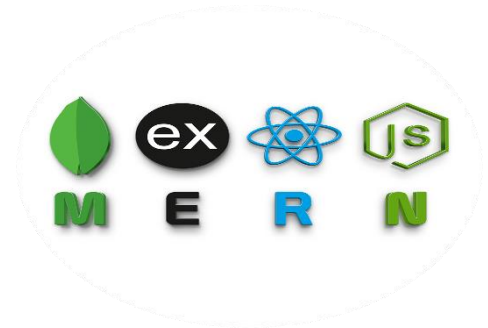

MERN STACK

1. HTML & CSS

- HTML5 : Semantic Tags, Forms, Tables, Media
- CSS3 : Flexbox, Grid, Responsive Design, Animations
- Mini Project: Personal Portfolio Website



2. JavaScript Basics

- Variables, Data types, Operators
- Functions, Arrays, Objects
- Loops, Conditionals
- DOM Manipulation
- Events & Event Listeners
- Mini Project: To-do App

3. Advanced JS

- ES6+ : let / const, Arrow Function
- Callbacks, Promises, Async / Await
- Closures, Hoisting, Scope
- Mini Project : Weather App Using Fetch API

4. React.js Fundamentals

- JSX, Components, Props, State
- Event Handling
- Lists & Keys
- Forms & Controlled Components
- Mini Projects: Movie Search App

5. React Router, Hooks, Project Work

- React Router DOM (v6+) : Routing, nested routes
- React Hooks: useState, useEffect
- Conditional Rendering, Lifting State Up
- Custom Hooks

- Context API
- Mini Projects: Blog or Notes App

6. Node JS & Express JS

- Core Modules, npm, Nodemon
- Creating Servers, Middleware, Routes
- Rest APIs (GET, POST, PUT, DELETE)

7. MongoDB

- MongoDB Basics, Collections, Documents
- Mongoose ODM: Schemas, Models, Queries
- CRUD Operations With Express + MongoDB
- Mini Projects: REST API For Task Manager / Blog

8. Full-Stack Integration + Authentication

- Connecting React With Node (Proxy Setup)
- JWT-Based Authentication (Login / Signup)
- Middleware for Protected Routes
- File Uploads (Multer)
- Pagination, Filtering, Sorting
- Full-Stack Project: MERN Blog App With Auth

9. Advanced Features

- Role-Based Access Control
- WebSockets (intro)
- Rate Limiting, Security

10. Testing & Optimization

- Postman, Unit Testing (Jest, React Testing Library)
- Error Handling, Performance Tips

11. Deployment

- Deploying Frontend : Vercel / Netlify
- Deploying Backend : Render ? Render + MongoDB Atlas

12. Final Capstone Project

★ Ideas: E-Commerce App, Chat App, Social Media Dashbord

Trainer	Er Abinash Nayak
Discounted Fee	₹ 14,999
Duration	6 Months