

Efficient Debugging



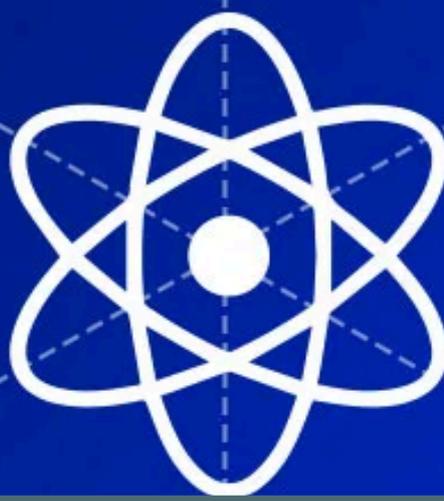
Seo Friendly



Dom Virtuality



Reusability



React.js Curriculum

Course Duration

- 3–6 Months (Beginner to Advanced)
- Mode: Classroom / Online / Hybrid
- Eligibility: Students, Freshers, Working Professionals, Entrepreneurs

Module 1: JavaScript Refresher for React

- Variables (let, const)
- Arrow Functions
- Destructuring
- Spread & Rest Operators
- Array Methods (map, filter, reduce)
- ES6+ Concepts

Module 2: React Basics

- Introduction to React
- React vs Traditional JS
- React Environment Setup

- Folder Structure
- JSX Syntax
- Components (Functional Components)

Module 3: Components & Props

- Component Reusability
- Props Handling
- Default Props
- Component Communication
- Best Practices

Module 4: State Management

- useState Hook
- State vs Props
- Conditional Rendering
- Lifting State Up
- Handling Forms

Module 5: React Hooks

- useEffect
- useContext
- useRef
- useMemo
- useCallback
- Custom Hooks

Module 6: Routing

- React Router DOM
- Dynamic Routing

- Protected Routes
- Nested Routes
- 404 Page Handling

Module 7: API Integration

- REST API Concepts
- Fetch API
- Axios
- Handling Loading & Errors
- Environment Variables

Module 8: Styling in React

- CSS Modules
- Styled Components
- Tailwind CSS
- Bootstrap Integration
- Responsive UI Design

Module 9: State Management

(Advanced)

- Context API
- Redux Basics
- Redux Toolkit
- Global State Handling

Module 10: Performance Optimization

- Code Splitting
- Lazy Loading
- Memoization

- Virtual DOM Understanding
- Best Optimization Practices

Module 11: Testing & Debugging

- Debugging with DevTools
- React Developer Tools
- Basic Testing Concepts
- Error Boundaries

Module 12: Authentication &

Security

- JWT Integration
- Role-Based Access
- Protected Components
- Secure API Calls

Module 13: Deployment

- Build Process
- Deployment on Vercel / Netlify
- Environment Setup
- Production Best Practices

Module 14: Real-World Projects

- Full Stack CRUD Application
- User Authentication System
- E-Commerce Web App
- Admin Dashboard
- Real-Time Chat App (Optional)

Module 15: Interview & Placement

Preparation

- Front-End Interview Questions
- Live Coding Practice
- Resume & Portfolio Building
- Mock Interviews
- Industry Use-Cases



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