

JavaScript & React Master Class

Complete Modern Web Development Syllabus

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COURSE MODULES

Module 1: JavaScript & ES6 Fundamentals

- JavaScript Basics & ES6 Standards
- Data Types & Variable Scoping (var, let, const)
- Functions, Arrow Functions & Scope
- Objects, Prototypes & Prototypal Inheritance
- ES6 Classes & Object-Oriented Programming
- Modules (Import / Export Syntax)
- Asynchronous JavaScript & Promises

Module 2: React Core & Concepts

- Introduction to React & Architecture
- React Initialization & Setup
- Virtual DOM & Efficient Rendering
- JSX Syntax & Expressions
- Data Binding & Event Handling
- Class & Functional Components
- Unidirectional Data Flow

Module 3: Navigation & Advanced React

- Client-Side Routing (React Router)
- Nesting Routes & Dynamic Routing
- Advanced Component Patterns
- Component Lifecycle Hooks
- React Hooks (useState, useEffect, useMemo, etc.)

Module 4: Forms & State Management

- Form Management with Formik
- Schema Validation using Yup
- Global State Management with Redux
- Modern Redux with Redux Toolkit
- Integrating Third-Party Libraries

Module 5: Testing & Quality Assurance

- Unit Testing Fundamentals
- Component & Integration Testing
- Testing Hooks, Redux & Async Flows
- Mocking API Calls & Services

Module 6: Backend & Database Operations

- API Integration & Async Operations
- Database Operations & CRUD Integration
- Data Persistence & Management

Ready to start learning? Contact FocusHat today at hello@focushat.com or call **8112353636** to register for the upcoming batch. Visit focushat.com for more course details and schedules.