

## React Js Lectureflow

<b>Module 1) Introduction</b>	<b>3</b>
<b>Module 2) JavaScript Essentials</b>	<b>6</b>
<ul style="list-style-type: none"> <li>• Basic JavaScript - Understanding var, let and Const - JS switch, if, else, - JS loop - Javascript JSON</li> <li>• Functions - Function Declaration in JS - Arrow Functions - Higher Order Functions - Map, Reduce and Filter</li> <li>• Classes - Javascript Classes and Objects - Class Properties and Methods - This keyword and binding in JS - Class inheritance - Exports and Imports</li> <li>• Array in JS - Creating Array - Array methods - The Spread &amp; Rest operators - Destructuring</li> <li>• JS Async - Callbacks - Promises - Async/Await</li> <li>• ES6 Basics and Babel</li> <li>• Understanding the DOM</li> <li>• Small Project using ES6</li> </ul>	
<b>Module-3) React - Components, State, Props</b>	<b>8</b>
<ul style="list-style-type: none"> <li>• Installation - Add React to a HTML Website - Create New React App - Hello World</li> <li>• Getting started in React</li> <li>• JSX</li> <li>• Components</li> <li>• Component Composition</li> <li>• JSX - Why JSX? - Embedding Expressions in JSX - Attributes with JSX - Children with JSX</li> <li>• Props &amp; Prop Types</li> <li>• Event Handlers</li> <li>• State</li> <li>• React Web App</li> <li>• Components, State, Props - Function Component - Class Component - Props - State - Class Component Lifecycle</li> </ul>	
<b>Module 4) Lists and Hooks</b>	<b>6</b>
<ul style="list-style-type: none"> <li>• Conditional Rendering - Lists and Keys - Forms - Handling Events - Lifting State up</li> <li>• Hooks - Introduction - Using the State hook - Using the Effect hook - Rules of Hook - Custom Hook</li> </ul>	
<b>Module-5) React - Styling &amp; Advance React</b>	<b>5</b>
<ul style="list-style-type: none"> <li>• Creating the first App</li> <li>• Understanding the App</li> </ul>	

- Styling the App
- Inspecting & Debugging styles
- Built-in components
- Working with Images
- ListView
- TextInput
- Styling React Components - CSS stylesheet - Inline Styling - CSS Modules - CSS in JS Libraries (styled components)
- Creating Views (Scenes)
- Conditional Rendering - Lists and Keys - Forms - Handling Events - Lifting State up
- Hooks - Introduction - Using the State hook - Using the Effect hook - Rules of Hook - Custom Hook
- Advance Concepts - Context, useContext() - Working with Refs and useRefs() - Fragments - Performance optimization with useMemo() - Styling React Components - CSS stylesheet - Inline Styling - CSS Modules - CSS in JS Libraries (styled components)
- Bootstrap with React
- React Router - Browser - Router - Link - Route - Template integration - Http Request in React - Get and Post data

#### **Module 6) React Router**

**8**

- React Router
- Browser - Router - Link - Route
- Template integration - Http Request in React - Get and Post data

#### **Module-7) React - Applying Redux**

**8**

- State
- State storage problem
- Redux Basics
- Redux Principles
- Implementing Redux
- React-Redux
- Middleware
- Counter App Demo
- Redux - Complexity of Managing state - Understand the Redux Flow - Setting up Reducer and store - Dispatching Actions - Passing and Retrieving Data with Action - Combining Multiple Reducers - Adding Middleware - Redux Dev tools