

**React Beginner & Intermediate level training**

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| **Tech Stack** | | | | | **FY 2023 - 24** | |
| **React** | | | | |  | |
| **TRAINER NAME** | | | | |
| **SATHESH KUMAR / RAJESH** | | | | |  | |
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| **Session** |  | | | **Name of the Topics** | | **Topics** |
| **React Beginner & Intermediate Level Training** | | | | | | |
| **1** |  | **Introduction to ES6** | | | | Classes  scopes: let and const  Arrow functions |
| **2** |  | **ES6 Features** | | | | Destructuring  Spread Operator  Promise Concept  Generator |
| **3** |  | **Introduction to React.js** | | | | Why use?  Comparison with other frameworks  Components |
| **4** |  | **Introduction to React.js** | | | | Virtual DOM  JSX  React Project Structure |
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| **5** |  | | | **The Core of React** | | Class  DOM  Factory  Render  Best Practices  Hands-on exercises |
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| **6** |  | | | **React Components - stateful & stateless** | | Elements  Lifecycle  State |
| **7** |  | | | **React Components - stateful & stateless** | | Props  Invoking web services (REST api’s)  Hands-on exercises |
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| **8** |  | | | **Component inter communication:** | | Parent and child component Communication  Hands-on exercises |
| **9** |  | | | **Component inter communication:** | | Uses of function delegation  Handling event  Hands-on exercises |
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| **10** |  | | | **Tools** | | Chrome plugin for React  Webpack, Babel  Hands-on exercises |
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| **11** |  | | | **Hoc, Materials UI** | | Use of HOC  Container components  Use of React Hooks: useState, useEffect, memo, useMemo, useCallback, useRef  Context Object  Use of localization |
| **12** |  | | | **Hoc, Materials UI** | | Introduction to Material UI  Benefits  Use of popular components:  Button  Table  List  CheckBox  Hands-on exercises |
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| **13** |  | | | **Concept of State Management** | | Introduction to Redux  Provider  Reducers |
| **14** |  | | | **Concept of State Management** | | Middleware: thunk, saga (intro)  Store |
| **15** |  | | | **Ajax** | | Integration with React & Ajax (wrt redux)  Hands-on exercises |
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| **16** |  | | | **Testing** | | Unit Testing (Jest / testing lib) Mechanism:  Testing DOM Manipulations |
| **17** |  | | | **Testing** | | Testing Properties and State  Testing Action Creators  Hands-on exercises |