# **React JS Training Syllabus**

* 70 Hours -

## **Basics**

* **Basics of HTML**

We want to learn how to build web pages using HTML

* **Basics of CSS**

Start basics of CSS, flex box, grids, preprocessors and CSS frameworks like: Bootstrap, Tailwind

* **Basics of JavaScript**

We will learn here Variables, functions, iterations, using DOM and windows functions.

* **Responsive Design**

Learn how build response design with CSS media queries and using flex box.

## **React.js**

1. **React 17.0.1**

This is a complete hands-on training program with all the new features of recently released React 17.0.1

1. **Explore ES6 & beyond**

Learn concepts of modern JS starting with ES6 and go beyond with further versions

1. **JSX**

Learn how to code UI using declarative syntax JSX

1. **Components**

Create components, decompose UI into smaller components and compose them to make larger pages. Functional components and class components.

1. **State management**

Learn how to manage state in react applications and best practices

1. **Code splitting & Lazy loading**

Understand the need to code splitting and know how to implement the same

1. **Redux & Redux saga**

Shared state and how share data between components

1. **Hooks & context**

Use the advantages of hooks to power function components with state, life cycle and context access

1. **Routing**

Learn who to implement routing in react application using react-router

1. **Setup up react with webpack**

Learn how to build a react development environment from scratch using webpack

1. **Debugging**

Learn how to debug react applications using chrome and VSCode

1. **Dev Tooling**

Learn how to take advantage of react and redux DevTools

1. **Bundling**

Understand the bundling process and optimizations applied by create-react-app build

## **Advanced**

1. **Unit testing**

Learn how to unit test react applications using jest & enzyme

1. **Push notifications**

Learn how to add push notifications to our app.

1. **Realtime Chat (using socket.io)**

Using Sockets and Realtime messaging