

# Web Designing with React

**W**eb design refers to the design of websites that are displayed on the internet. It usually refers to the user experience aspects of website development rather than software development. Web design used to be focused on designing websites for desktop browsers; however, since the mid-2010s, design for mobile and tablet browsers has become ever-increasingly important.

A web designer works on the appearance, layout, and, in some cases, content of a website. Appearance, for instance, relates to the colors, font, and images used.

**Duration :** 40 Hours

## **Course Objective :**

The main objective of this course is to strengthen the skills like HTML5, CSS3 along with advanced concepts like flexboxes and media queries, JavaScript along with ES6 fundamentals. Based on this course we will cover the CSS framework like bootstrap. And you will get knowledge on popular JavaScript libraries i.e, React Js.

## **Entry Requirements :**

- The faculty and students who are having basic programming knowledge and computational thinking.

## Hardware requirements :

- Processor : i3 or above
- RAM : 4GB or above
- Operating system: Linux, Windows, MAC
- Internet connectivity

## Software requirements:

- Chrome
- Text editors (Sublime or Visual studio code )
- Nodejs software

## Table of Contents

<b>Part 1</b>
Introduction to web design and development
Git and GitHub
Introduction to HTML5 & CSS3
<b>Part 2</b>
Basic web app using HTML5 and CSS3
Introduction to Flexboxes and media queries
<b>Part 3</b>
Practical exposure on flexboxes and media queries
Introduction to bootstrap
Introduction to JSON
<b>Part 4</b>
Implementing and validating JSON data
Introduction to Javascript
DOM manipulations

Parsing JSON data using JavaScript (Ajax and fetch API)

## **Part 5**

ES6 fundamentals

Building of application using DOM manipulations

## **Part 6**

Building of application using DOM manipulations

Introduction to static server (Web server for chrome)

Auditing of web sites.

## **Part 7**

Introduction to Object oriented programming

Introduction to Node & React Js

Installation procedure

File structure of React Js

## **Part 8**

Executing react app with node server

Introduction to JSX

Introduction to components, kinds of components

composition

## **Part 9**

Styling React components

React DOM

## **Part 10**

Props

States

## **Part 11**

Routing in React
Classes in react-router-dom
Navigation using react-router-dom
<b>Part 12</b>
Rendering JSON using React JS
Building of application using
<b>Part 13</b>
Introduction to HOOKS
Use State
Use Effect
<b>Part 14</b>
Component lifecycle methods
Introduction to Redux
<b>Part 15</b>
What is a Reducer
What are the Actions
What is a Redux store