React JS Course Syllabus

**JavaScript Fundamentals**

* Introduction to JavaScripts
* Data types and Variables

# Arrow Functions

* Objects and Array

# Dom Manipulation Basics

# String Literals

# JS helpers (foreach, filter, map, every, some)

# String Literals

# De-Structuring an array and object

# Rest and Spread Operator

# Default Parameters

# Promise Method

**Introduction to React**

* What is React?
* Why is React?
* Setting up development environment (Node.js, NPM etc.)
* Workflow of React Js
* Scope of React Js
* React DOM
* React Virtual Dom
* What is Single Page Application?
* What is CLI: create-react-app project name
* Advantage using CLI
* How to debug React JS application.
* Installation CLI
* Install Node JS & React JS
* Create a hello world example
* Create React JS Project
* Understanding of Folder Structure
* How to debug React JS application
* Introduction of Babel

**JSX and Components**

* Introduction to JSX
* Creating And rendering components

# Props and States

* Component Lifecycle
* Render Elements
* Types of Components
* Class Components
* Functional Components
* HOOKS in detail
* Use of HOOK
* What is state
* React Forms
* Components and Props
* State and Lifecycle Handling Events
* Practice on above topics

**React Router**

* Introduction to React Router
* Configuring Routs

# Creating Routs

# Understand routing in single page applications

# Working with Browser Router components

# Configuring route with Route component

# Making routes dynamic using Route params

# Working with nested routes

# Navigating to pages using Link and Nav Link

# Component

# Redirect routes using Redirect Component

**Handlling Forms and User input**

* Controlled component
* From Validation

# Handling events

* Controlled components
* Understand the significance to default Value
* Props
* Using react ref prop to get access to DOM element

**React Hooks**

* Introduction to hooks
* UseState, UseEffect and other commenly used hooks

# Custom hooks

* HOOKS in detail
* Use of HOOK
* What is state?
* Components and Props
* State and Lifecycle Handling Events

**State management with Context Api**

* Building a simple CRUD application
* Working with API and asynchronous data

# Best practices and project structure

# Introduction htps Request

# The path Module

# Building a Web server

# HTTP Request Methods, Headers

# Response Codes and Headers

# Introduction Axios NPM

# Introduction Slider NPM

# Integration of any NPM modules

**REACT WITH DESIGN FRAMEWORK**

# Material UI for design

**Building Real-World Application**

* Building a simple CRUD application
* Working with API and asynchronous data

# Best practices and project structure