

# ReactJS - Syllabus

Sl. no	Topic	Hrs
1	ReactJS Introduction	
2	Scope of ReactJS	
3	What is ReactJS?	
4	Understanding the Terminology of ReactJS	
5	What is Single Page Application?	
6	Understanding the ReactJS Architecture	
7	Setting up the ReactJS Environment	
8	Creating the First Project in ReactJS	
9	Understanding the Project Folder & Files Structure	
10	Working with assets - Html, Css, Images, Javascripts in ReactJS	
11	Understanding the Term: Component.	
12	What is Component?	
13	Creating the new Component(s)	
14	Accessing the Created Component(s)	
15	Working with Re-Usable Component(s)	
16	Understanding the Terms: 'props' and 'state'	
17	Working with 'props'	
18	Implementing the 'props' into Component(s)	

19	Creating the 'state' object, setting the 'properties' into it	
20	Accessing the 'properties' from 'state' object into Components	
21	Working with Event Handlers ex., onClick, onHover, onBlur, onFocus, onChange etc.,	
22	Creating the methods into Component(s)	
23	Writing the definition(s) of the methods	
24	Passing 'parameters' into methods	
25	Understanding the concept of Property Binding	
26	Two types of Property Binding., 1. One Way Property Binding and 2. Two Way Property Binding	
27	Asking the User to input the value, accessing those value(s)	
28	Creating the group of Component(s) and accessing those through 'state' object	
29	Creating the CRUD operations	
30	Understanding the concept of Routing	
31	Creating the group of Component(s) and aligning them into Routing	
32	Fetching the Data from RESTAPI into Component(s) and accessing the Data	
33	Understanding and Working with Material UI (ReactJS UI	

	Framework)	
34	Creating the Button, Radio, Form, Table etc.,	
35	Working with Form, Two – Way Property Binding	
36	Creating the Validation with Error Hints,	
37	Applying the Regular Expressions to Input Fields	
38	Working with the concept of Observables	
39	Working with the concept of Services	
40	Implementing the concept of Observables & Subscribe with Services	
41	Implementing the concept of Observables & Subscribe with Services using RESTAPI	
42	Understanding the Terms: babel, webpack	
43	Understanding the concept of Redux	
44	Understanding the Terms: Component, Action, Reducer, Data Store	
45	Understanding and Implementing the concept of Redux	
46	Understanding the Term: Sage	
47	Implementing the functionality of Redux with Saga	
48	Understanding the Terms: Life Cycle Hooks	
49	What is the usage of Life Cycle Hooks	
50	How many types of Life Cycle Hooks: 1. Class Based Life Cycle Hooks and 2. Functional Based Life Cycle Hooks	

51	Understanding the Class Based Life Cycle Hooks and its methods: componentDidMount(), componentDidUpdate(), componentWillUnmount() etc.,	
52	Understanding the Functional Based Life Cycle Hooks and its methods: useState(), useEffect(), useContext(), etc.,	
53	Understanding the concept of Styled Components	
54	Working with ReactJS Developer Tools	
55	Implementing the concept of ContextAPI	
56	Understand and Implementing the Unit Tests in ReactJS	
57	Creating the Single Page Application in ReactJS	
	<b>Appr., no of sessions</b>	<b>25</b>