

Day 1 & 2 - 01 and 02 November 2021	
Week 1	JavaScript Concepts
	• JavaScript basics
	• ES2015
	• Variables, Scopes, Type checking and Related keywords
	• Functional Programming
	• Arrows and Callbacks
	• Classes
	• Handling Arrays and objects
	• Array functions
	• Map, Reduce and Filter
	• Spread and De-Structuring operator
	• Promise
	• Async Await
	• Generator Function and Yield
	• Browser Dev tools
	• Typescript
	• Typescript types, functions
	• Typescript classes
Week 2	Day 3 - 08 November 2021
	• Node JS Platform
	• Node and Npm
	• Node Package.json and node modules
	• Inbuilt modules
	• Node Global variables
	Hands on :
	• Creating node js Application
	• Exploring basic libraries in node
	• Understanding Node ecosystem
	Day 4 - 10 November 2021
	• Http and Rest Services
	• Rest services Best practices
	• Node HTTP module
	• Express JS
	• Routing
	Hands on
	• Creating Web application using Node JS
	Day 5 - 13 November 2021
	• Data Layer
	• Sequelize ORM
	• Creating Rest API Using Node
	• Handling JSON and file Data
	• Security
	Hands on
	• Creating Rest Services using Node
	• Handling Data layer using Sequelize ORM
	Day 6 - 15 November 2021
	• Task Runners in node Ecosystem
	• Grunt Overview
	• Webpack , Babel and poly fills
	• Node JS Testing and running Test Cases
	• Setting up application Structure and Environment
	Hands on
	• Creating Build Tasks using Grunt
	Webpack configuration for transpiling and bundling application
	Day 7 - 17 November 2021
	• React SPA
	• Create-react-app vs Webpack
	• React app using Typescript

Week 3	<ul style="list-style-type: none"> • React Components
	<ul style="list-style-type: none"> • State vs Props
	<ul style="list-style-type: none"> • Functional Components
	<ul style="list-style-type: none"> • Debugging
	Hands on
	<ul style="list-style-type: none"> • Setting up the application
	<ul style="list-style-type: none"> • Creating components
	Playing with the Data [State and Props]
	Day 8 - 20 November 2021
	<ul style="list-style-type: none"> • Component Communication
	<ul style="list-style-type: none"> • Form Handling
	<ul style="list-style-type: none"> • Controlled vs Uncontrolled Components
	<ul style="list-style-type: none"> • useState Hook
	<ul style="list-style-type: none"> • use Effect Hook
	<ul style="list-style-type: none"> • Component life cycle
	Hands on
	<ul style="list-style-type: none"> • Building Component Hierarchy
	<ul style="list-style-type: none"> • Parent Child Communication
	Form handling using Controlled vs Uncontrolled component approaches
Week 4	Day 9 - 22 November 2021
	<ul style="list-style-type: none"> • Routing
	<ul style="list-style-type: none"> • Route Parameters
	<ul style="list-style-type: none"> • Child Routing
	<ul style="list-style-type: none"> • Dynamically loading Routes
	<ul style="list-style-type: none"> • Lazy Loading
	Hands on
	<ul style="list-style-type: none"> • Create a Single page app with Routing
	<ul style="list-style-type: none"> • Handling Routing effectively
	Implementing lazy loading of Code
	Day 10 - 24 November 2021
	<ul style="list-style-type: none"> • Consuming API using Axios
	<ul style="list-style-type: none"> • Context API
	<ul style="list-style-type: none"> • Memorization
	<ul style="list-style-type: none"> • Other React Hooks
	Hands on
	<ul style="list-style-type: none"> • Managing state of the app using Context API
	<ul style="list-style-type: none"> • Consuming the server side data using Axios
	Day 11 - 26 November 2021
	<ul style="list-style-type: none"> • Redux Architecture
	<ul style="list-style-type: none"> • Reducers, Actions and Higher order components
Week 5	Hands on
	<ul style="list-style-type: none"> • Implementing Redux architecture
	<ul style="list-style-type: none"> • Implementing HOC
	Day 12 - 29 November 2021
	<ul style="list-style-type: none"> • Redux Middlewares
	<ul style="list-style-type: none"> • Redux Saga
	<ul style="list-style-type: none"> • Saga Helper Functions
	<ul style="list-style-type: none"> • Testing Components using Enzyme and Jest
	<ul style="list-style-type: none"> • Testing best practices
	Hands on
	<ul style="list-style-type: none"> • Adding Redux Layer to the app
	<ul style="list-style-type: none"> • State management using redux store
	Testing the components
	Day 13 - 01 December 2021
	<ul style="list-style-type: none"> • Redux Architecture
	<ul style="list-style-type: none"> • Reducers, Actions and Higher order components
	Hands on
	<ul style="list-style-type: none"> • Implementing Redux architecture
	<ul style="list-style-type: none"> • Implementing HOC