# Section 1 – React Introduction

* React Introduction and Setup
* React Project Structure
* Import and Export Module
* Component Introduction (Class and Function)
* Class Component and render()
* JSX Introduction
* Binding Data (Number, String , Object and Array) into JSX

\*1. Create Class Component and design UI with render() function.

\*2. Create Multiple Component and Showing in App Component.

\*3. Show variables in JSX.

\*4. Show Object and Array in JSX.

#1. Show Array of Objects in JSX

#2. Create Multiple Component and Show into another.

# Section 2 – Component State and Binding

* State Introduction
* Data Binding in Component
* Event Binding in Component
* setState() function
* ref in Component
* Styling in Components
* Attach Bootstrap in Project
* Form and onSubmit() Event

\*1. Create numeric state and change its value on button click event.

\*2. Increment and Decrement Numeric State Value

\*3. Create Dynamic Friend List with add and delete operation. All friends name show in unordered list. When user click on any list item show name in alert box;

\*4. Student Management Record Program with Full CRUD Operations. rollnumber , name , email , city , branch , physics , chemistry , maths

Note : 1. Email and rollNumber not duplicate

1. RollNumber, name , Email, branch , physics , chemistry , maths are

mandatory

#1. Student Marksheet Generate Program #2. Basic Calculator

#3. Create a slider with 10 images in javascript with next and previous button. #4. Create a Stopwatch.

# Section 3 – Props and Context

* Props Introduction
* Parent and Child Communication
* Props Drilling
* Context in Class Component

**\***1. Send Data from Parent Component to Child Component.

\*2. Send Data from Child Component to Parent Component.

\*3. Student Management Project with Props.

\*4. Props Drilling Problem solve with Context.

#1. Change the Parent Component State from Child Component. #2. Send Data between Sibling Components.

#3. Manage Multiple Students Exam Details with Props (individual exam data is a seperate component) :

Exam Details : RollNumber , Name , Branch , Physics , Chemistry , Maths Operations : 1. Add Exam Details

* 1. Delete Exam
  2. Filter Exam Records Via Branch ,

Name and Roll Number

#4. Share App Component Data between Child Via Context.

# Section 4. Routing and Template Integration

* React Routing
* BrowserRouter , Routes , Route , and Link Component
* Template Integration
* Public and Private Routing

\*1. Create Multiple Component and route all components via Menu Bar.

\*2. Template Integrate via download from google.

# Integrate these Templates :

1. [https://www](http://www.free-css.com/free-css-templates/page287/onix-digital).fr[ee-css.com/free-css-templates/page287/onix-digital](http://www.free-css.com/free-css-templates/page287/onix-digital)
2. [https://www](http://www.free-css.com/free-css-templates/page287/dicet-tv).fr[ee-css.com/free-css-templates/page287/dicet-tv](http://www.free-css.com/free-css-templates/page287/dicet-tv)
3. [https://www](http://www.free-css.com/free-css-templates/page284/pet-shop).fr[ee-css.com/free-css-templates/page284/pet-shop](http://www.free-css.com/free-css-templates/page284/pet-shop)
4. [https://www](http://www.free-css.com/free-css-templates/page283/medinova).fr[ee-css.com/free-css-templates/page283/medinova](http://www.free-css.com/free-css-templates/page283/medinova)

# Section 5. Function Component and Hooks

* + Function Component and Rendering
  + Hooks Introduction
  + useState() , useEffect() , useRef() , useParam() , useContext()
  + State and Props

\*1. Create all Previous Programs via Function Component.

#1. Create Photo Gallery with add and delete images via Function Component. #2. Create To-Do List Program.

# Section 6. Web Communication

* + Call Rest Apis via Fetch and Axios Module.
  + GET , POST , PUT and DELETE Method
  + File Uploading via FormData
  + Use Emall Api for Practice
  + Create Emall Admin Project with Class Component

\*1. Call Category List (GET) Api and show data in table.

\*2. Call Category Save (POST) Api and show the result. #1. Use this Api : https://dummyjson.com/users

1. Show Data in Table in sorted order via age by default
2. Manually change the Sorting via

gender, blood group, weight, firstname #2. Use this Api : https://dummyjson.com/products

Show Response Data in UI via Child Component

# Section 7. Redux

* + Redux Introduction
  + Action , Reducer and Store
  + Dispatcher and Subscriber
  + Manager data with Redux Store

\*1. Create Project which manage data between multiple components using Redux.

\*2. Shopping Cart Manage App

#1. Create Online Exam Portal with maximum 20 Single Choice questions. After complete the exam result also show on screen. Maximum time for attempting one question is only 3 seconds.

# Section 8. Emall Project

* + Implement Emall Api and create user panel with Registeration , Login , Cart and Purchase functionality.
  + JWT Token Introduction and Implementation.

\*APIS : <http://apps.skilledfresher.in/emall/apis/apis.txt> #Project Api : <http://apps.skilledfresher.in/chatbuddy/apis/apis.txt>