

Day1:

1. NodeJS Basics
 - a. Introduction
 - b. Installation and Environment Setup
 - c. What is front-end and back-end development using JS
 - d. NPM Introduction
 - e. NPM Modules
 - f. **A simple package.json file using npm init command**

Day2:

2. ES6/JavaScript fundamentals:
 - a. Introduction
 - b. History of Javascript
 - c. ECMA Script versions
 - d. **JavaScript Variables**
 - e. **undefined and undeclared**
 - f. **Var keyword**
 - g. Let and Const keyword
 - h. Strict Mode
 - i. Hoisting
 - j. Arrow Function
 - k. Callback
 - l. ES6 Operators
 - m. Objects
 - n. Built-In Objects
 - o. Write a program to remove the elements which are having multiple occurrences*
 - p. Example code for undefined and undeclared, let, const and arithmetic keyword*

Day3:

- a. **Default Parameter**
- b. Spread Operator
- c. Rest Parameter
- d. Switch statement
- e. ES6 Loops (for..in, for..of)
- f. ES6 Arrays
- g. Arrays methods
- h. Array de-structuring
- i. Write a program which will take default parameter called as message with default value Welcome to JavaScript *
- j. Write a function with default parameter which will have initialized with required argument function and throw an error if not passed*
- k. Write a function to merge two arrays using spread operator*
- l. Write code using switch statement to print the current day*
- m. Write a program to remove the elements which are having multiple occurrences in the array using Object *

Day4:

- n. ES6 String and String Method
- o. Array methods (ES5)**
- p. Template Literals
- q. OOPS**
- r. Classes
- s. Object methods (Assign, Cloning, etc)
- t. Object De-structuring
- u. ES6 Map
- v. ES6 Set
- w. ES6 Iterators

Day5:

- a. Generators
- b. Yield Keyword
- c. Modules
- d. Asynchronous**
- e. Promises
- f. Async and await
- g. Write a program using Generator function and yield.**
- h. Write a program to divide the app using modules using export.**
- i. Write a program using Map to remove the elements which are having multiple occurrences**
- j. Write a program using Set to remove duplicates from the array of String**
- k. Write a program using reduce function and Map to remove the elements which are having multiple occurrences**
- l. Write a program using Generator function for fabonacci series.**
- m. Write a program using yield keyword using iterator next method.**
- n. Write a program using Generator and for..of to print the result together.**

Day6:

- 3. ReactJS
 - a. Introduction
 - b. Class Components
 - c. Functional Components
 - d. State
 - e. Props
 - f. Component Life Cycle
 - g. Forms
 - h. Events
 - i. Refs
 - j. Keys
 - k. Router
 - l. React Router
 - m. A part of training tracking system using class components.**

Day7:

- 4. React Hooks

- a. useState
- b. useEffect
- c. useMemo
- d. useContext
- e. Axios/ Fetch Library
- f. **A part of training tracking system using functional component.**

Day 8:

- 5. NodeJS
 - a. Node Modules
 - b. Event Loop
 - c. Event Emitter
 - d. Web Module
- 6. Express
 - a. Introduction to Express Framework
 - b. Introduction to REST
 - c. REST Api implementation in Nodejs
 - d. **A part of training tracking system using Node and ExpressJS**

Day9:

- 7. Database
 - a. Introduction to Databases
 - b. MySQL
 - c. Node application to connect MySQL DB
 - d. MongoDB introduction
 - e. **A part of training tracking system to connect MongoDB**
- 8. ORM
 - a. Introduction to ORM
 - b. Use Mongoose for Mongo DB
 - c. **A part of training tracking system to connect MongoDB using Mongoose.**

Day10:

- 9. A complete project for training assignment and management.
 - a. Manager / HR : Create Users
 - b. Manager / HR: Create Course / assignment with YouTube / Udemy / other online reference
 - c. Manager / HR : Assign Training with due date
 - d. Employee : Can Update status of training with % completion daily

Note:

- 1. **Yellow colour** highlighted topics are added to the scope as per the candidate demands or better understanding.
- 2. This report is day wise so in case of any change in plan will be updated accordingly.