

Topics	Duration
Javascript	
Javascript Basics	1
scope (remaining) (Block, function, global),strict mode,Math functions,Hoisting,Arrays (accessing arrays & array methods),Arrow functions,Comments,Map and set,Classes,inheritance,JavaScript Modules,Callback functions (Asynchronous program),Template Literal,JavaScriptJSON,JavaScriptDebugging,ReservedWords,JavaScript Objects, Properties, and Methods,Deep copy & shallow copy,spread operator,Exception Handling	2
Asynchronous programming,Promises,Async/Await,Events,Higher-order-functions,Date,Hands-on examples	1
Assessment 1 on Basic to advanced Js	
React	
Introduction to MERN stack (Framework, library, installation, basic set-up),React fundamentals,JSX uses,Components (Stateful)	1
Props,States,concept of inline, external, and internal css,Events,Life-cycle methods for class components	1
form handelling using Refs and using events, React demo application multi level hirerachy of props and states using Todo apps	1
Assessment 2 React Basics (MCQs) & hands-on practice	1
Higher-order-components,Introduction of Hooks,Overview of useState,Overview of useEffect,Tasks based on hooks	1
Overview of useContext,useReducer,useMemo,useRef,useCallbacks,Custom hooks,LocalStorage example	1
Hands-on questions on hooks,Doubt clearing session	1
React Router,Mui overview	2
MUI dashboard hands-on with tabs	2

Assessment 3 (Components, State, Router & Hooks) (MCQS), MUI useFormik form	1
MUI dashboard hands-on excersize using routers	1
React HTTP Request with help of JSON server	1
Node & Express Js	
Introduction to Node.js, Why to learn Node.js, JavaScript Engine,Chrome's V8 Engine, JavaScript Runtime Environment , JavaScript Runtime Environment Components	1
Advantages of Node.js, Disadvantages of Node.js, When to choose Node.js for your application, When not to choose Node.js for your application, Node.js modules, Hands-on Examples on different modules	1
Introduction of Express.js, Why to use Express.js, Why to use Node.js with Express.js, Hands-on examples (Basic routing, middleware, accessing static files, creating APIs and CRUD operations, overview of the usage of body-parser)	1
Express.js & Node.js app creation, mini apps, routers, middlewares, sending data to static files, downloading files, API creation with HTTP requests, CRUD operations with POSTMAN using static file data, body-parser, nodemon, types of responses, types of requests	3
MySQL overview, installing workbench and setting up MySQL server in local	1
Express.js & Node.js with MySQL database hands-on	2
Assessment - 4 (React Testing, Node Js, Express Js & MySQL)(MCQs)	1
Project Development/Assignments	10