

Full-Stack Web Development

S. No.	Curriculum	Subtopic	Date	No. of Hours
1	Introduction to Web Technologies:	Careers in Web Technologies and Job Roles How the Website Works? Client and Server Scripting Languages Difference between a Web Designer and Web Developer Types of Websites (Static and Dynamic Websites) Responsive design and layout	06/01/2025 (7:00 PM - 8:00 PM) 08/01/2025 (7:00 PM - 8:00 PM)	2
2	HTML	What is Markup Language Basic Structure of HTML HTML Elements Working with Forms Adding Special Characters Block Oriented Elements List, Attributes of list Uniform Resource Locators Hypertext Links Images, Tables Introduction to style Sheets Changing the Background Creating Style Classes	09/01/2025 (7:00 PM - 8:00 PM) 15/01/2025 (7:00 PM - 8:00 PM) 16/01/2025 (7:00 PM - 8:00 PM)	3
3	CSS	CSS Introduction CSS Syntax CSS Id & Class Types of CSS links Colors and Backgrounds Text and Fonts Lists, Tables CSS Selectors CSS Box Model CSS Advanced	22/01/2025 (7:00 PM - 8:00 PM) 23/01/2025 (7:00 PM - 8:00 PM) 29/01/2025 (7:00 PM - 8:00 PM)	3

4	Java-Script	Introduction to JavaScript Enabling in various, browsers, Popup Boxes Variables Operators Conditional Statements Loops Functions Events Cookies Page redirection Built-in Objects	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
5	Advanced javascript	Form Validations Basics of Form Validation Validating Radio Buttons Validating Check-boxes Validating Select Menus JS Document Object	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
1	Version Control	Introduction to Version Control and Git Getting Started with Git Basic Git Commands Branching and Merging Collaborating with Git Introduction to GitHub GitHub Workflow for Front-end Projects Best Practices for Git and GitHub Troubleshooting Git Issues Integrating Git and GitHub with Front-end Tools	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
7	Jquery	What is JQuery? Using JQuery links JQuery Selectors JQuery Events JQuery Effects JQuery HTML	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer

2	Bootstrap Framework	Adding Header & Navigation Adding Logo in Navigation Bar & Adding Banner Adding Jumbotron Adding Rows, Columns & Containers Adding Column Width using offset Ordering Columns using push or pull Nesting Columns in Bootstrap Adding Footer top Website Adding Responsive or Utilities in Bootstrap Styling Button using between classes Styling Images and making images Responsive Adding description list in bootstrap Adding Panels	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
3	DOM	Introduction to DOM DOM manipulation create Element, set Attribute get Element By Id, query Selector vs query SelectorAll innerHTML vs innerText append Child vs append	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
4	Asynchronous Programming	Callbacks MODULE 10 Callback, Callback hell asynchronous JavaScript Promises Promise, Promise States, Promise chaining, Use of fetch() & then() Async/Await Async/Await with error handling Fetch API Implementing CRUD with HTML, CSS JavaScript	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer

1	React	<p>React Basics ES5 vs ES6, JSX, Components, Props, State Components (simple to reusable), Passing data through props, Deploying to netlify React Hooks & States Working with array lists, Usage of keys, Conditional rendering, Handling Events, Props vs State React Components Component lifecycle, Stateful & stateless components, Reusable components, Introduction to Hook React Hooks What is a hook? Lifecycle of Hook, useState, useEffect, Props drilling, Passing data from child to parent component</p>	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
2	React Router	<p>React-router-dom, BrowserRouter Switch, Link, Route, URL params Context API : Context-API, What is context, provide createContext, Avoid props drilling Session task – profile name changes</p>	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
3	useRef & useReducer	<p>useRef, useReducer, Front-end game demonstration - hangman / tic tac toe / tile match Axios : Playing around with API, fetch() or Axios Implementing simple CRUD React-redux : Intro to Redux state management with react application</p>	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer

4	Data-base MySQL	Introduction to MySQL basic queries DB model design Normalization select queries joins	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
5	Database MongoDB	Introduction to MongoDB, CRUD operations basic cursor methods Aggregation Server-side vs Client-side rendering	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
6	Node.js	Node.js Basics Node & MongoDB Connectivity : Connection to MongoDB(local & atlas) frontend + backend connectivity Introduction to Node.js, Npm packages Node.js & Express.js What is Express API methods Request & response objects URL & Query parameters	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
7	Node & MongoDB Connectivity: Node.js Deployment	Connection to MongoDB(local & atlas) frontend + backend connectivity Dotenv Deployment, frontend + backend connectivity	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer
8	Authenticatio & JWT	Authentication, bcrypt frontend + backend connectivity JWT custom middleware, authorization frontend + backend connectivity	Dates and timings for this topics will notified you soon after getting the time slots from our Trainer