Milestone	Module Name	Date	Lessons
JavaScript Fundamental - 1			
Milestone - 1	JavaScript Fundamental - 1	13 Feb 2023	Why and What of JavaScript Server Side(Node, Ts, Alias) Object and Datatypes Variables and Scopes Operators Conditions in JS(IfEl Lb) Plus and conditions(If-If else, if-else) Project Case Loops, Conditions Introduction to Array Array Methods, Slice Loops For Loop, Break and Continue
JavaScript Fundamental - 2			
	JavaScript Fundamental - 2	20 Feb 2023	What is an Array, Index in array and accessing from array Loop methods Why and What of Functions and Function Declaration Function with parameters and return Function with Function(Callback and Scopes) Function with arrow(Function as a variable) Loop Functions Anonymous Function Arrow Function Callbacks, Promises What was the need of object ? Creating object and Manipulating values in Object Object methods
JavaScript DOM			
	JavaScript DOM	27 Feb 2023	Introduction of DOM How to manage DOM Selecting Elements Methods of DOM - Part 1 Methods of DOM - Part 2 Methods of DOM - Part 3 Other elements in DOM
JavaScript DOM Assignment			
	DOM Assignment	01 March 2023	**Project 1 – Show me all the Events and Date in Tamil** Project 2 – Background Color Changer
Milestone 1 Exam		04 Mar 2023	JavaScript Foundation Exam
JSON and Functional Programming			
Milestone - 2	JSON and Functional Programming	06 March 2023	What is Higher Order Function (HOF) Callback, Returning function Closure, Scope Chain, Prototypes Function scope, Array Objects Array Map, map How to access and Difference Character or Return and operations Filtering Array of Objects
Destructuring			
	Destructuring	13 March 2023	Creating an empty set and Creating set from array Creating set from array and Adding an element to set Checking an element in set Deleting an element from set Clearing the set Definition of sets Creating an empty Map and Creating an Map from array Creating an Map from array and Getting a value from Map Checking Key in Map Destructuring Arrays Destructuring Array Arrays Object parameter without destructuring Object parameter with destructuring Destructuring Objects Object parameter with destructuring Destructuring Array
Error Handling and Prototypes			
	Error Handling and Prototypes	20 March 2023	Try and Catch and Temporal Dead Zone Use of let, const, Avoid var and Implications Reference errors, Type Errors Syntax errors, Range Errors and other errors **Use cases and Examples of each error** Array and value Destructuring Array Destructuring Array Objects Array, accumulator the using Prototypes Prototyping Object in Javascript Error Propagation in Chrome and Understanding Chrome
Callback and Promises			
	Callback and Promises	23 March 2023	Callbacks Nested Callbacks Promise Chaining Error Handling Async Wait
Milestone 2 Exam		25 Mar 2023	JavaScript Intermediate Exam
Working of JavaScript			
Milestone - 3	Working of JavaScript	27 March 2023	Global, Function Scope, Block Scope Hoisting Detail Execution Context Call Stack Closures Lexical Scope Working of Closures Global Space and Global Scope Lexical Scope Use of let and const and Temporal Dead Zone
Git and Github			
	Git and Github	03 April 2023	Introduction to Git and Evolution Version Control System Why Version Control System Installation and Get Ready Git Initialization and First Commit Overview of .gitignore Creating Branch, Merging Branch and Checkout to main branch Connecting Local Repository and Pushing changes to Github Connecting PRD for Bug Fix Process Configuration of Gitlab in local system Push the files to Gitlab
Networking			
	Networking	03 April 2023	Intranet Internet IP Address MAC Address Port Number HTTP 1 and HTTP 2 and HTTP 3 Introduction to SSL Routing and Packagers Ping Command
Milestone 3 Exam		06 Apr 2023	Git and Networking Exam
Fundamentals of Database			
Milestone - 4	Fundamentals of Database	17 April 2023	What is Database ? What are types of Databases ? What is SQL Database and the Types of SQL Databases ? Table Relations Joins What is Schema Level Actions Mean Walk through with Database Postgre SQL Diagrams
SQL			
	SQL	24 April 2023	DDL(DBT) and its Concept (Profile, Raw, Variants, Mail Notice, Constraints, SSL) DDL(DBT) and Installation SQL Queries - Part 1 (Show Databases, use, Select and Create) SQL Queries - Part 2 (Insert, update, delete) SQL Queries - Part 3 (Joins)
NoSQL			
	NoSQL	01 May 2023	What is NoSQL and Types of NoSQL Databases ? Advantages and Disadvantages of SQL and NoSQL ? What is collections ? MQL and What of MongoDB Why and What of MongoDB Connecting Mongo DB Atlas using Compass Interface MongoDB Query - Part 1 (Create, Update, Delete) MongoDB Query - Part 2 (Comparison, Logical and Array Operations) Aggregation Operations and Pagination Pipeline
Milestone 4 Exam		07 May 2023	Deadline Exam
Express			
Milestone - 5	Express	08 May 2023	Monolithic Architecture Microservices Architecture MVC Design Pattern
Fundamentals of Nodejs			
	Fundamentals of Nodejs	10 May 2023	Nodejs Architecture NPM use and Packagejson NPM Install CJS Modules ES Modules Process Module Fs Module
Walk Through with Express			
	Walk Through with Express	15 May 2023	Setup of Express Application How to Create Server in Express How to Handle Different URLs What is Express Middle Ware (Request) Middle Ware Functions and Middle Ware Order Status of Errors Express Error Handler Middle Ware Function Cookies
Fundamentals of Express			
	Fundamentals of Express	22 May 2023	Express Router Express Middle Ware Middleware Express Error Middle Level Middle Ware(4) Implementation of Middle Ware Order Implementation of Middle Ware Order Cont...
CRUD with Express			
	CRUD with Express	29 May 2023	Post Get Put Delete Methods REST Methods Creating Routes (POST) Reading Routes (GET) Updating Routes (PUT) Deleting Routes (DELETE)
Auth with Express			
	Auth with Express	3 June 2023	Cookie-parser, Express Ajax, Express-session, Express-flash Authentication and Authorization Cookies, Sessions, Authentication, Authorization Flash and Why of JSONWT
Milestone 5 Exam		04 June 2023	Backend Exam
LMS (Backend)			
Milestone - 7 (Part 1)	LMS (Backend)	12 June 2023	Working Framework and Features of LMS Setup of LMS (Admin and User) Setup for LMS (Admin and User) Setup - LMS (Admin and User) Express Backend Setup Configuration Email (User) Express Postfix API (Admin and User)
LMS (ADMIN)			
	LMS (ADMIN)	10 June 2023	Admin Controller Admin Routes Admin Controller Admin Routes Category Routes Course Controller Course Routes (in Array)
LMS (USERS)			
	LMS (USERS)	10 June 2023	Profile Routes Mailing the Contact Form the Frontend Contact
Walkthrough With Root			
Milestone - 6	Walkthrough With Root	26 June 2023	Implementation of Root Express Project with Vite Create server app Create Root Component (redux-toolkit) Vite PWA Installation (Dependencies in PWA) Conditional Rendering, for component Implement (Redux-toolkit) (redux-toolkit) Connecting components, Filtering Redux state Rendering components, Filtering Redux state
Roster and Blocks			
	Roster and Blocks	03 July 2023	Authentication Authorization How to save magnet to master array Authentication flow with Auth0 integration Start Roster DOMAIN Start Roster DOMAIN CTO Auth0 setup and configuration Auth0 Integration Auth0 Integration Auth0 Integration Auth0 Integration
Form Handling			
	Form Handling	10 July 2023	Form Handling and Validation with Formik Formik - Intro Concept **Plan on Backend and Actions** Error in Frontend in Actions
Roster with Tailwind			
	Roster with Tailwind	17 July 2023	Tailwind and the Concept Tailwind Setup and Configuration Responsive Layout with Tailwind Assignment - 1 (Root + Tailwind) (Clone of Tata AIG or Marlboro) Assignment - 2 (Root + Tailwind) (Financial Calculator)
Frontend (LMS) - 1			
Milestone - 7 (Part 2)	Frontend (LMS)	24 July 2023	Image Slider Image and Blog Top Page Image Displayed Page Profile Page
Frontend (LMS) - 2			
	Frontend (LMS)	31 July 2023	Admin Dashboard Admin Courses Dashboard Admin Dashboard Admin Dashboard Admin Dashboard Admin Dashboard
Frontend (LMS) - 3			
	Frontend (LMS) - 3	07 Aug 2023	Course Analytics CSS Integration with Backend Admin Dashboard Pricing Formatter
Milestone 7 Exam		10 Aug 2023	Project Exam