Detailed Curriculum	
PRE WORK (4w): Introduction to Programming	
ent, Webpage - A building block of web development, Traditional Vs Modern Web App, Server Side Coding Technologies	
Node Js, Express JS, MongoDB, React. Understanding a a basic MERN Application.	
operations in Git, git init, git pull, git commit, git add, git push, git merge, git diff	
Installation of VS Code, Github, MongoDB Compass	
v): CS Fundamentals & Frontend Development	
Page structure, Elements, Tags, Input attributes, HTML5 tutorial	
Syntax, Selectors, Specificity, Properties, Layout	
mments, Data Types, Operators, Branching and Looping in JS, Functions	
of Variables, Declaring Objects, Working with Objects, JSON Format , Function call	
del, Working with DOM Objects, Queryselector, innerHTML, Manipulating CSS, Add/Remove classes, Manipulating Attributes, DOM Event Listener	
cturing ,Rest Operator, Spread Operator, Defining Class in ES6, Inheritance from Class, OOP (Polymorphism, Encapsulation) using ES6, Iterables , forEach	
String Functions, Data Structure in JS, Time and Space Complexity, Stack, Linear Search and Binary Search	
Strict Mode, Try Catch Block, Promises, Ajax, Async Await, Local Storage, Session Storage	
ntax, Selectors, DOM Manipulation, CSS Manipulation, Working with Ajax	
X, React Components and Props, Styling React Components, React Fragments, React Hooks and Context, Conditional Rendering, React Constructors, React Refs	
MODULE 2 (5w): Databases	
, Querying, Joining Tables, Creating Database and adding business logic, MySQL tutorial + Normalisation	
oose DB(Version of MongoDB), Creating Database, Creating Collections, CRUD Operations, Mongoose Schema and Models.	

MODULE 3 (5w): Backend development	
NodeJS	Rendering HTML, Working with Files, MVC Pattern, Sessions And Cookies, Authentication and Authorization
ExpressJS	Routing and HTTP Methods, Middleware, Cookies REST API, Error Handling, Integrating React and Express
Testing	Unit test case: Unit testing using open sources tools, Browser and System testing automation
Cloud Deployment	
Cloud Foundations	AWS Console, IAM, Roles, EC2, Lambda, DocumentDB
Deployment of MERN App on AWS	Code Deployment using Code Pipeline and Cloud Formations, Configuring Nginx for Backend and Frontend