

FullStack NodeJS

Live Classes	Guided Learning
Week 1: Web Technology	Documents, Videos and Assignments will be provided for below topics. Adequate time will be given to the below topics according to your semester calendar. HTML 5 - Self Learning • HTML 5
Week 2: HTML/CSS Basics HTML Basic Tags Meta tag Div vs Span Block level & Inline element Semantic tags Form elements CSS Introduction to CSS Selectors Block level element Inline element Box model Positions	



Week 3 to 5: JavaScript

- Introduction to JS
- Data Types & Variable declaration in JavaScript
- Accessing the form elements & it's values
- Functions
- Regular Expression
- Events
- Builtin Functions in JavaScript (Arrays, String, Date, Math)
- Debugging & Developer tools,
- Dynamic HTML, Changing CSS
 Styles using JavaScript
- Node properties & Node methods
- Window properties & Window methods
- Screen properties & Screen methods
- Navigator
- Client side storage
- AJAX(HTTP Request)

Week 6: MySQL

- Basic MySQL Queries
- Aggregator
- Joins

Week 8-10: NodeJS

- Introduction to NodeJS
- Chrome's V8 engine
- Workflow of Node.js architecture



- How to run the nodejs file/project (Practice)
- Node packages
- File System
- Streams in NodeJS
- HTTP Server
- ExpressJS
- Middlewares
- RESTFul APIs
- Routes, Model
- View & Controllers
- NodeJS Database connection
- Debugging in NodeJs using VS code

Week 12 - 15 : Advanced DSA using JavaScript

- Stack
- Queue
- Linked List
- Tree
- Hashing
- Breadth First and Depth First,
- Dynamic Programming
- Divide and Conquer
- Greedy Algorithm & Back Tracking

Week 17-19 - Advanced HTML, CSS & JavaScript

- Promise, Async & Await
- Hoisting
- Usage of `this` keyword in JavaScript



- Prototype
- Closure
- Currying

Week 21-25 - ReactJS

Week 26 & 27 - E2E Project

Management +JWT Authentication GIT, JIRA & SDLC

- GIT & GITHUB
- Agile
- JIRA
- SDLC

Week 29 to 32: End-to-End Project

with ReactJS

Profile creation

Interview Preparation