



# **MERN Stack Development**

## **Syllabus**

**Duration: 120 Hours**

### **1. HTML**

- **Introduction to HTML**
- **Browsers and HTML**
- **Editor's Offline and Online**
- **Tags, Attribute and Elements**
- **Doctype Element**
- **Comments**
- **Headings, Paragraphs, and Formatting Text**
- **Lists and Links**
- **Images and Tables**

### **2. CSS**

- **Introduction CSS**
- **Applying CSS to HTML**
- **Selectors, Properties and Values**
- **CSS Colours and Backgrounds**
- **CSS Box Model**
- **CSS Margins, Padding, and Borders**
- **CSS Text and Font Properties**
- **CSS General Topics**

### **3. JavaScript**

- **Introduction to JavaScript**
- **Applying JavaScript (internal and external)**
- **Understanding JS Syntax**
- **Introduction to Document and Window Object**
- **Variables and Operators**
- **Data Types and Num Type Conversion**
- **Math and String Manipulation**
- **Objects and Arrays**
- **Date and Time**
- **Conditional Statements**
- **Switch Case**
- **Looping in JS**
- **Functions**



## **4. JSON**

## **5. JQUERY**

## **6. React+Redux**

- Introduction
- Template using JSX
- Components, State and Props
- Lifecycle of Components
- Rendering List and Portals
- Error Handling
- Routers
- Redux and Redux Saga
- Immutable.js
- Service Side Rendering
- Unit Testing
- Webpack

## **7. Node + Express**

- Node js Overview
- Node js - Basics and Setup
- Node js Console
- Node js Command Utilities
- Node js Modules
- Node js Concepts
- Node js Events
- Node js with Express js
- Node js Database Access

## **8. MongoDB**

- SQL and NoSql Concepts
- Create and Manage MongoDB
- Migration of Data into MongoDB
- MongoDB with PHP
- MongoDB with NodeJS
- Services Offered by MongoDB

## **9. Major Project Work**

## **10.Placement Assistance Sessions**

- **Mock Interviews**
- **GDs**
- **Preplacement Talks**
- **Industry Exposer Sessions**

## **11.Internship**

