

# Back-End Web Development

**Duration : 4 Months**

**3 Days Free Trail**

**Price : Rs. 8999 /-**

## **Module - 1: Introduction to JS**

1. Fundamentals of JS
2. Loops and Arrays
3. Function and Objects
4. Working of JS
5. Functions in JS
6. OOPS in JS
7. DOM Manipulation
8. JS Async, AJAX & APIs
9. Modules in js
10. JavaScript Object Notation (JSON)

## **Module - 3: Introduction to NodeJS**

1. Introduction to Nodejs
2. Core Node.js modules
3. Reading and writing files asynchronously
4. File system operations and events
5. Event loop and its role
6. Callbacks and event emitters
7. Promises & async/await

## **Module -5: Introduction to ExpressJs**

1. Introduction to Expressjs
2. Creating Servers with ExpressJs
3. Creating Dynamic Template
4. Defining RESTful Routes
5. Implementing MVC in Express
6. Middleware in ExpressJs
7. Using Template Engines
8. Error Handling
9. API Handling
10. Developing Template Engines
11. Using Process Managers

## **Module -7: Introduction to MongoDB**

1. Introduction to MongoDB
2. CRUD With MongoDB
3. MongoDB Data Modelling
4. MongoDB Security
5. MongoDB Aggregation
6. MongoDB Indexes
7. MongoDB Storage & replication

## **Module - 2: Version Control System**

1. Introduction to Git
2. Git Branches
3. Git Workflow
4. Introduction to Github
5. Github Branches
6. Pull / Push to Github
7. Clone / Fork from github
8. Git Ignore
9. Git & Github SSH
10. Git Revert / Reset / Amend

## **Module - 4: Introduction to DBMS**

1. Introduction to PostgreSQL
2. Basics of RDBMS Concepts
3. Basics of SQL Concepts
4. PostgreSQL Security Concepts
5. PostgreSQL Infrastructure Skills
6. Automation in PostgreSQL
7. SQL Optimization Techniques

## **Module - 6: React & Redux**

1. Introduction to React
2. Learning JSX
3. Create-React-App
4. React Components - I
5. React Components - II
6. Styling in React
7. Component Lifecycle Methods
8. React Hooks
9. React Router
10. Context API
11. Redux in React
12. Redux Toolkit

## **Module - 8: Projects**

1. File Analyzer App
2. Image Bazaar WebApp
3. Google Drive Clone WebApp
4. Open-Board WebApp
5. Instagram Clone WebApp