



## **MEAN Stack Web Development Course Syllabus**

### **Introduction to Web Development and MEAN Stack**

- Overview of web development
- Introduction to the MEAN stack
- Setting up development environment (Node.js, npm, MongoDB)
- Basics of Git and version control

### **MongoDB - NoSQL Database**

- Introduction to MongoDB
- CRUD operations (Create, Read, Update, Delete)
- Data modeling and schema design
- Indexing and querying in MongoDB

### **Express.js - Backend Framework**

- Introduction to Express.js
- Routing and middleware
- RESTful API design principles
- Express.js and MongoDB integration

### **Node.js - Server-side JavaScript**

- Introduction to Node.js
- Asynchronous programming with callbacks and Promises
- Building RESTful APIs with Node.js and Express.js
- Authentication and authorization in Node.js

### **Angular - Frontend Framework**

- Introduction to Angular
- Components, services, and modules
- Angular routing and navigation
- Connecting Angular with Express.js backend

### **Full-Stack Application Development**

- Integrating MongoDB, Express.js, Node.js, and Angular
- User authentication and authorization
- Error handling and debugging in a full-stack environment
- Deploying a MEAN stack application to a cloud platform

**Final Course Outcomes**

- Hands on experience with real time projects
- Industry Recognized Certificate
- Placement Assistance