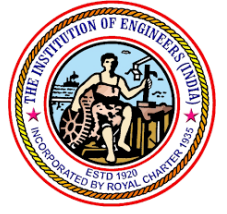# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)
Old Bombay Road, Gachibowli, Hyderabad, Telangana – 500 032, India

Industrial Training Cum Internship on
WEB DEVELOPMENT USING MEANS

Introduction

MEAN stack is fast developing, easy to learn and easy to combine around. Any technology available in Stack can be used easily in integration with another, depending on the requirement. However, it is definitely a new cutting edge technology and innovation that will possibly rule the market shortly.

Here are some benefits of using MEAN stack for application development. Single Language Development. Open Source platform. Ease to learn. Quality user interfaces. Massive library of functions to work with. MongoDB provides flexible structure. Faster speed and usability. MEAN enables Isomorphic Coding.

Industrial Training Objectives

- To understand the Web Technologies.
- Get hands-on experience of MEAN's Stack Development.
- Working knowledge of Web Application Development.
- To program the embedded hardware with Python.
- Real Time Project Experience.
- To explore knowledge on Web Security & Secure Coding.

Industrial Training Topics

MongoDB

- Introduction to NoSQL Database
- Installation and configuring
- Basics of MongoDB
- CRUD Operations
- Indexes
- ObjectIds
- Aggregation
- Data Modeling
- Relationships
- User/Role Management

Angular

- Fundamentals Of JavaScript
- Starting With Angular 4
- Introduction to Angular7
- Introduction to TypeScript
- Angular Features
- Building with Angular Components
- **Component Life Cycle**
- Introduction to Bootstrap
- Binding and Events
- Dependency Injection and Service
- Directives
- Pipes

- Forms
- Routing
- Case study & Project

Node.js

- Introduction to Node.js
- The Node.js framework
- Installing Node.js
- Node Projects
- The Node Package Manager
- Working with shrink-wrap to lock the node modules versions
- Working with asynchronous programming
- Building a HTTP Server with Node.JS using HTTP APIs
- File System
- Buffers, Streams, and Events
- Multi-Processing in NodeJS

ExpressJS

- Express JS with MongoDB and Sqlite
- Socket.io, The Front-end, and A Chat App
- Introduction to Task Managers with unit testing

Internship Details:

Duration: 2 Weeks Hands - on Training + 2 Week Project Development
Venue: Online
Fee: Rs.**4500/-** (Inclusive of 18% GST)
Assessment & Certificate: ESCI and Technology Partner

Internship Dates - 09 May - 04 Jun 2022   06 June – 02 July 2022   04 – 08 July 2022