

RAMAIAH INSTITUTE OF TECHNOLOGY

(Autonomous Institute, Affiliated to VTU)

Five Days Faculty Development Programme on

“Modern Web Application Development using MEAN Stack”

6th to 10th January 2020

REGISTRATION FORM

Name:.....

Designation:.....Dept:.....

Institution:.....

Address:.....

Phone:.....Fax:.....

Mobile No:.....

Email ID:.....

Registration Fees: Rs. 1000, Rs. 3000(Industry Participants)

• Faculty of VTU affiliated and Autonomous Colleges

DD to be drawn in the favor of “The Principal, MSRIT”.

Signature of Applicant

Signature of Principal

CHIEF PATRONS

Dr. M. R. Jayaram, Chairman, GEF
Sri. M.R.Seetharam, Vice-Chairman, GEF
Sri. M. R.Ramaiah, Secretary, GEF,
Sri. B. S. Ramaprasad, Chief Executive, GEF
Dr. N V R Naidu, Principal,Ramaiah Institute of Technology

CONVENER

Dr. Anita Kanavalli, HOD CSE, RIT

ORGANIZING COMMITTEE

All Faculty of CSE, ISE and MCA

TOPICS

- Introduction to Advanced Java Script: Scopes & Closures, OO concepts as applied to JS and prototypal inheritance, Asynchronous Programming & Callbacks
- Introduction to Server-side JS Framework: Node.js, Understand npm and package.json structure,typescript,Use Express.js to create a REST API. Use GET, POST etc
- Introduction to Client-side JS Framework: Basics of Angular, Angular architecture, Components,Templates, Data binding and display,User input and forms, Services and Directives
- Introduction to NoSQL Database - MongoDB , Implementation of Basic CRUD Operations using MongoDB
- Hands on sessions: Develop a web application using MEAN Stack. (Mongo,ExpressJS,AngularJS,NodeJs)
- Introduction to Dockers and Dockerizing MEAN Stack.

SPEAKERS

- Industry Experts from SAP ,Micro Focus,IBM& JPMorgan.
- CSE Faculty from RIT

IMPORTANT DATES

Last Date of Online Registration : December 31th 2019

<https://forms.gle/dV8F7VAkmJJ1tdnx9>

Spot Registration also available if seats are available



RAMAIAH
INSTITUTE OF TECHNOLOGY

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Organized by Departments of

**Computer Science and Engineering,
Information Science and Engineering and
Department of Master of Computer
Applications**

FDP COORDINATORS

Dr.J.Geetha

Dr. Monica R Mundada

Mr. Pradeep Kumar D

Dr. Megha Arakeri

Dr. Myna A N

Dr. Madhu Bhan,

Mr. Abhishek S L

RAMAIAH INSTITUTE OF TECHNOLOGY

(Autonomous Institute, Affiliated to VTU)

MSR Nagar, MSRIT Post ,Bangalore-54,Karnataka, INDIA.

Phone Numbers : +91 80 23603123, 23603120,

23600822, 23606934, 23606936

Fax +91 80 23603124

Web: www.msrit.edu



ABOUT THE INSTITUTE

RAMAIAH INSTITUTE OF TECHNOLOGY (RIT) is a Self Financing Institution Established In Bangalore in the year 1962 by the industrialist and philanthropist, Late Dr. M S Ramaiah. RIT is managed by the Gokula Education Foundation (GEF). The mission statement of GEF is “To deliver education and health for the betterment of mankind”. RIT has an ISO 9001:2008 certification from BVQI. All eligible Engineering Departments offering Bachelor degree programmes have been accredited by NBA & NAAC with ‘A’ grade. The institute is a participant of the Technical Education Quality Improvement Programme (TEQIP), an initiative of the Government of India.

Some of the distinguished features of RIT are: State of the Art Laboratories, Individual computing facility to all faculty members, Campus wide networking connecting all 2000 system to the net. The Centre for Advanced Training and Continuing Education, Centre for Research and Industrial Consultancy, and Entrepreneurship Development Cell have been set up on campus. RIT has a strong Placement and Training Department with a committed team, a fully equipped Sports Department, Large Air-conditioned Library to name a few.

ABOUT THE FDP

The FDP focus on MEAN stack which refers to a collection of JavaScript-based technologies used to develop web applications. MEAN is an acronym for MongoDB, ExpressJS, Angular, and Node.js— MongoDB is a database system, Express is a back-end web framework, Angular.js is a front-end framework, and Node.js is a back-end runtime environment. The entire program is a structured learning path recommended by leading industry experts and ensures that you transform into an expert MEAN Stack developer.

The program begins with Node.js and Express.js which provide a solid foundation to understand and build web applications with the help of JavaScript. Further, you will gain a comprehensive understanding of Angular to help you master front-end web development. Finally, you will get training in MongoDB which will help you grasp all the features of the NoSQL database technology. We have included brushup sessions for JavaScript as elective to help you gain a further edge.

MEANStack is also useful because it allows the entire client to server code to be written in JavaScript. A lot of companies are adopting MEAN stack as it is open source and flexible, thereby making it fairly easy to learn and customize application and the MEAN stack can be easily assembled with MVC architecture. Top tier companies Uber, Walmart etc are now from a varied range of frameworks are choosing MEAN Stack for their entire application development.

The main objectives of this FDP are as follows:

- Node.js: This course helps you gain an in-depth knowledge of concepts such as Express.js, Node Packet Manager (npm), multi-processing in Node.js, REST, CRUD operations, Express.js with MongoDB.
- AngularJS : This course will help you master concepts such as JavaScript, Bootstrap Grid System, Dependency Injections, SPA (Single Page Application), Directives, Forms, Pipes, Promises, Observables.
- MongoDB Developer: This course enables you to become an expert MongoDB developer by gaining an in-depth knowledge of NoSQL and mastering skills of data modeling, ingestion, query.
- To provide hands-on sessions on usage of Advanced Javascript concepts
- To explore Nodejs, Express, MongoDB & Angular4.0.
- Focusing on automate the deployment of applications inside software containers and the automation of operating system level virtualization on Linux using Dockers.

ABOUT THE DEPARTMENTS

The Departments of CSE, ISE and MCA regularly conducts FDP on emerging topics, organizes workshops and symposiums for students. The departments have rich research culture with publications in reputed journals and conference proceedings. Vocational courses are conducted for students in summer semester. More than 200 students of other departments and other institutes participate.

INTENDED AUDIENCE

The FDP is beneficial for faculty handling web technology course in VTU colleges, who want to explore on new topics related to modern web technologies.

ADDRESS FOR COMMUNICATION

Dr. J. Geetha

Email: geetha@msrit.edu, 9916912573

H. K. Srilakshmi

Email: srikprasad@msrit.edu, 9880169830

**Ramaiah Institute of Technology
Department of Computer Science
and Engineering**

MSR Nagar, Bangalore 560054.