

CHIEF PATRON

Dr. A.C. Shanmugam, B.A. L.L.B, FIMSA, FRCPS (Glasgow, U.K)
Chairman, Rajarajeswari Group of Institutions, Bengaluru.

PATRONS

Sri. A. C. S. ArunKumar
Vice-Chairman, Rajarajeswari Group of Institutions, Bengaluru.

Dr. S. Vijayanand
Executive Director, Rajarajeswari Group of Institutions, Bengaluru.

Sri. S. Jeyabalan
Special Officer, Rajarajeswari Group of Institutions, Bengaluru.

Sri. C.N. Seetharaman (Retd IAS Officer)
CEO, Rajarajeswari Group of Institutions, Bengaluru.

COPATRONS

Dr. A.K.Mariappan,
Rector, Rajarajeswari Group of Institutions, Bengaluru.

Dr. R. Balakrishna
Principal, RRCE.

ORGANIZING SECRETARY

Dr.S.Usha
Prof & HOD,
Dept of Computer Science & Engineering,
RRCE, Bengaluru -74.
Mobile: 9972929988 / 9742844953

REGISTRATION

Registration to the SDP is open to personnel from academics.

Participants will be given the participation/attendance certificates in the valedictory function.

IMPORTANT DATES

Programme Date: 8th Jan – 9th Jan 2024

VENUE

The SDP will be held at **Rajarajeswari College of Engineering**, APJ Abdul Kalam Conference Hall.

RESOURCE PERSON

Eminent resource persons from the industry are invited to deliver the course content.

CO-ORDINATORS

Sunil A, Asst. Prof, Dept of CSE
Rashmi B R, Asst. Prof, Dept of CSE
Supraja M, Asst. Prof, Dept of CSE



RAJARAJESWARI COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi)
ACCREDITED BY NAAC, 'A+' Grade and NBA (CSE, ECE) (ISO 9001:2008)

#14, RAMOHALLI CROSS,
KUMBALAGODU, MYSORE ROAD,
BENGALURU-560074, KARNATAKA, INDIA.



Five Days SDP On “Angular JS and Node JS”

8th Jan – 12th Jan 2024

Organized By
Department of
Computer Science & Engineering

RAJARAJESWARI COLLEGE OF ENGINEERING

Fax: +91- 80-28437373,
Ph: 080-28437124, 080-28437375,
080-65666769
WEBSITE: WWW.RRCE.ORG

Rajarajeswari College of Engineering
Department of
Computer Science & Engineering

5 Days SDP

On

**”Angular JS and Node
JS”**

8th to 9th Jan 2024

REGISTRATION FORM

Name: _____
(IN CAPITAL LETTERS)

Designation: _____

Department: _____

College: _____

Address: _____

Phone: _____ Mob: _____

Email: _____

Cheque/DD No. _____

Amount: _____

Date: _____

Registration can be done during the on-spot registration of the SDP on 8th Jan 2024.

Principal /
Head of the Department

Signature
(Participant)

About the SDP

The primary objective of the SDP is to give Hands-on training on Angular JS and Node JS that use basic and advanced Programming features.

Topics to be covered

Day-1

Introduction to HTML & Node Js

- HTML Basics, Elements, Attributes, Styles
- Forms, Form Elements, Input Element Types
- Input Attributes, File Paths, the Script tag
- HTML & XHTML
- Introduction to Node JS
- Introduction to Node JS
- Advantages of Node JS
- What is Node JS, Node.js Process Model
- Traditional Web Server Model

Introduction to CSS & Node JS Modules

- CSS Introduction, Syntax, Selectors, Styling
- Pseudo class, Pseudo Elements
- CSS Tables, CSS Box Models
- CSS Opacity, CSS Navigation Bar, Dropdowns
- Functions, Buffer, Module
- Modules Types
- Core Modules, Local Modules
- Modules Exports

Day-2

Introduction to JavaScript & Node Package Manager

- JavaScript Statements, Keywords, Functions
- JavaScript Programs, Operators, Functions
- Function Parameters, Function Return Types
- Data Types, Primitive Types
- What is NPM, Installing Packages Locally
- Installing package globally

- Adding dependency in package JSON
- Updating packages

Working with Objects & Creating Web Server

- Object-Oriented Programming, Object Creation
- Adding Methods of Objects
- JavaScript Loops & Iteration
- Adding Properties of Objects
- JavaScript Conditional Statements
- Enumerating Properties, Callbacks, JSON
- Creating Web Server
- Sending Requests
- Handling HTTP requests

Day-3

Angularjs Basics & File System

- What is AngularJS?
- Why AngularJS?
- Why MVC matters
- MVC-The AngularJS way
- Features of AngularJS, Model-View-Controller
- My First AngularJS app
- read File, Writing a File
- Opening a file, Deleting a file
- Writing a file asynchronously
- Other IO Operations

Angular Expressions & Database Connectivity

- All about Angular Expressions
- How to use expressions, Angular vs JavaScript
- Connecting String, Configuring
- Updating Records
- Working with Select Command
- Deleting Records

Day-4

AngularJS Modules & Debugging Node JS Application

- Introduction to AngularJS Modules
- Bootstrapping AngularJS
- Core Node JS Debugger, /li>

AngularJS Forms

ulam">

- Working with Angular Forms, Model Binding
- Forms Events, Updating Models with a Twist
- Form Controller, Validating Angular Forms
- \$error object

Scope

rse_curriculum">

- What is scope, Scope Lifecycle
- Scope Inheritance, Scope & Controllers
- Root scope, Scope Broadcasting
- Two-way data binding, Scope Inheritance
- Scope & Directives, \$apply and \$watch
- Scope Events

Dependency Injection & Services

- **What is Dependency Injection**
- Creating Services, Factory, Service & Provider
- Using Dependency Injection, What are services
- Using AngularJS built-in services

Single Page Application (SPA)

- What is the SPA, Pros, and Cons of SPA
- Passing Parameters, Changing the location

- Installing the ngRoute module, Configure routes
- Resolving promises, Creating a Single Page Apps

AngularJS Animation

- ngAnimate Module, CSS Transforms
- CSS Transitions, Applying Animations

Day-5

Discussion of Programs as per VTU 5th Semester Syllabus.

About the Institution

Rajarajeswari College of Engineering (RRCE) was established in the year 2006 under the shelter of Moogambigai Charitable and Educational Trust (estd. 1992) with the sole object of establishing Institutions of higher education of exemplary stature in the state of Karnataka.

RRCE is approved by AICTE, New Delhi, and is affiliated with Visvesvaraya Technological University (VTU), Belgaum, and Karnataka. The Institute offers six UG Engineering courses (Civil, Mechanical, EEE, ECE, CSE, ISE, CSE-IoT, AIML, R&A), three PG courses, and nine research centers.

About the CSE-Department

The Department of Computer Science and Engineering aims at fostering excellence in academics & research. Over the years it has trained students to be globally competitive and to advance the intellectual capacity of the nation and the international community. We

envision our students to be globally recognized as leaders, innovators, and competent professionals. The department has more than 30 teaching, non-teaching & supporting staff and our program has been accredited by the National Board of Accreditation (NBA). The current intake of the department for BE is 180 and 18 for M. Tech. The department has a VTU-recognized research center with full-time and part-time Ph.D. students pursuing research in areas like High-Performance Computing, Data Mining, Cloud Computing, Sensor Networks, Ad hoc Networks, and Machine Learning.

Address for communication

**The Co-Ordinator,
SDP on AngularJS and NodeJS,
Department of Computer Science & Engineering,
#14, Ramohalli Cross, Rajarajeswari College of
Engineering, Kumbalagodu – 560074,
Bengaluru.
Mobile: 7975467092 / 9972708213.**