



# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

*Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India*



## INFORMATION TECHNOLOGY DIVISION

### Professional Development Programme

## Cloud Computing Services using AWS

**Hands-on Training on Amazon Web Services(AWS)**



22 – 25 Nov 2017



(An ISO 9001:2008 Certified. AICTE & CEA Recognized Institution)

**Centre for Promotion of Professional Excellence**

## Introduction

**Amazon Web Services (AWS)** are a suite of cloud-computing services that make up an on-demand computing platform. These services operate from 13 geographical regions across the world. The most central and best-known of these services arguably include Amazon Elastic Compute Cloud, also known as "EC2", and Amazon Simple Storage Service, also known as "S3". As of 2016 AWS has more than 70 services, spanning a wide range, including compute, storage, networking, database, analytics, application services, deployment, management, mobile, developer tools and tools for the Internet of things. Amazon markets AWS as a service to provide large computing capacity quicker and cheaper than a client company building an actual physical server farm.

Professional Development Programme on “**Cloud Computing Services using AWS**” course will expose to the participants about the learning of cloud fundamentals as well as explore how to manage cloud computing applications and infrastructures using **Amazon Web Services (AWS)**.

## Objective

- To understand the different cloud computing deployment options, benefits and challenges.
- To explore how to apply cloud computing to the applications and infrastructures using AWS.
- You will learn overview of the AWS platform and then deep dive into the individual elements of the AWS platform. You will explore Route53, EC2, S3, Cloud Front, Autoscaling, Load Balancing, RDS, RedShift, DynamoDB, EMR, VPC etc.

## Course Coverage

### Cloud Computing Overview

- About Virtualization
- Cloud Computing: Key Concepts
- Benefits of Cloud Computing
- Cloud Computing Architectures
- Cloud Computing Components
- Cloud sourcing vs. Outsourcing
- Infrastructure As A Service (IAAS)
- Platform As A Service (PAAS)
- Software As A Service (SAAS)
- Private vs Public vs Hybrid Clouds
- Infrastructure for the Cloud
- Cloud Development Life Cycle
- Fault-tolerant, and Scalable Systems
- Identity Access Management (IAM)
- Amazon Virtual Private Cloud (VPC)
- Elastic Compute Cloud (EC2)
- Amazon Simple Storage Service (S3)
- Amazon Route
- Databases in AWS
- Amazon Relational Database Service
- AWS Application Services
- Security Practices for optimum Cloud Deployment
- Disaster Recovery
- Troubleshooting

### Cloud Computing using AWS.

- Overview of AWS Products and Services
- Designing Highly Available, Cost-efficient

## Methodology

Methodology of the programme includes class room sessions with Lecture / Discussion with audio visual aid, bench marked video shows, chalk & talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

## Target Participants

- ❖ IT Managers / System Engineers / Administrators / Programmers / System Analysts/ Defence Scientists
- ❖ Professors, Faculty & Technical staff of Engineering Colleges.
- ❖ All the Managers / Executives / Engineers of Govt & Public Sector, who are interested Cloud Technology

## Benefits to the participants

- ❖ After completing this course, the Participant will have an understanding of the Cloud Computing environment and practical experience in designing, developing, and deploying Cloud-based solutions
- ❖ After completing this course, the Participant will be able to know effective utilization of Amazon web Services(AWS).

## Programme Venue, Dates & Timings

**Venue:** Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad. 500032. TS, India.

### Dates

**22 – 25 Nov, 2017**

### Timings

On the first day Registration will commence at 09:00 hrs. On all other days the programme timings will be from 09:45 – 17:15 hrs with breaks in between for tea and lunch.

## Course Director



**Mr. Syed Azgar , MBA(IT), RHCE, MCSA**  
Faculty & Manager-IT,  
Information Technology Division,  
Engineering Staff College of India, Hyderabad.

## Course Fee

**₹ 15,000/- (Residential Fee)** per participant. Fee includes course material, course kit, twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of training programme.

## DISCOUNTS

- ❖ **Non – Residential Fee** - 10% discount on course fee is allowed for non- residential participants.
- ❖ **Group Discount** - Additional 10% discount for three or more participants if sponsored by the same organization.

**(All discounts are applicable only if fee is received at ESCI before commencement of the programme)**

**GST @18%** is to be paid extra and above the training fee as training is also brought under the purview of Service Tax in Finance Bill 2010. **PAN Card No.** AAATT3439Q. **GST No:** 36AAATT3439Q1ZV, **HS No.:** 999293 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in favour of **“THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of demand draft payable at Hyderabad. Alternatively the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by NEFT/ RTGS/ IFSC Code No. SBIN 0004159 – MICR No.500002075. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

**Register Online:** <http://www.escihyd.org/trainings/information-technology/>

To register, manually please send your nominations giving details of name, designation, contact address, email address, mobiles no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

### The Head

Information Technology Division  
Engineering Staff College of India  
Gachi Bowli, Hyderabad – 500 032  
Phone: 66304100 (EPABX) / 040 – 66304123/24/25 (Direct), Fax: 040 - 23000336  
Email: [it@escihyd.org](mailto:it@escihyd.org), Portal: [www.escihyd.org](http://www.escihyd.org)

## A Certificate of participation will be awarded to each participant on conclusion of the programme.

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participant.