



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India



INFORMATION TECHNOLOGY DIVISION

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME



AWS Cloud Administration

18 – 21 November 2024
(Classroom Training)

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.

Objectives

- To learning cloud fundamentals as well as explore how to manage cloud computing applications and infrastructures using Amazon Web Services (AWS)..
- 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.

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

Cloud Computing using AWS.

- Overview of AWS Products and Services

- Designing Highly Available, Cost-efficient
- 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

Methodology

Methodology of the programme includes class room sessions with Lecture / Discussion with Hands- on Practical, with tools, 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

(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

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 Dates & Timings

Venue: ESCI Campus Hyderabad

Dates: 18 - 21 November 2024

Session timings will be from 10:00 – 17:00 hrs with 01 Hour Lunch break & 15 Minutes Tea break..

Course Director

Mr. Syed Azgar , MBA(IT), RHCE, MCSA

Sr Faculty & Head IT,

Information Technology Division,

Engineering Staff College of India, Hyderabad.

Course Fee Classroom Training

- ₹ **25,000/- (Residential)**. per participant. Fee includes course material, course kit, Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of the training program.

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

Programme fee is to be paid in 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 – **Axis Bank** A/c No. **912010049234564** with The Axis Bank Ltd, Old Mumbai Hwy, Cyberhills Colony, P Janardhan Reddy Nagar, GachiBowli Hyderabad-500032 by NEFT/ RTGS/ IFSC Code No. UTIB 0000733 – MICR No.500211020. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

Registration

Online registration shall be available on ESCI **web portal** : <http://www.escihyd.org/index.php/it-upcoming-trainings>

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

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

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