



सत्यमेव जयते

## Electronics & ICT Academy IIT Guwahati, Assam

An Initiative of Ministry of Electronics & Information  
Technology (MeitY),  
Ministry of Communications and IT,  
Government of India



### A Faculty Development Programme on

### Cloud Computing with AWS



Organized in association with  
Department of Computer Science  
KKR & KSR Institute of Technology & Sciences  
and  
support from Kovid Academy.



Applications are invited from Faculty Members/ Research  
Scholars/PG & UG Students/Lab Technicians/Project  
Staffs from Universities/Colleges & Industry Personnel to  
attend a FDP on

### “Cloud Computing with AWS”

Course Date: 07-13 Aug, 2017

Last Date of Registration : 01 Aug, 2017

(Online Registration Link will be open from 01 July, 2017)

Venue: Department of Computer Science

KKR & KSR Institute of Technology & Sciences, Guntur  
(Andhra Pradesh)

## Objective of the Course

- After successful completion of the course the participants would be able to build highly scalable, secure and fault tolerant applications in the AWS Cloud.
- The session would be a mix of theoretical concepts and practical exercises, with more focus on the regular practical assignments.
- The participants would be evaluated at the end using a MCQ (Multiple Choice Questionnaire) on the last day of the training towards the end. The evaluation would be very much like the AWS Developer Certification and would be conducted online.

## Course Programme

Training Programme is split into two parts: Lectures and Labs/Hands-on sessions daily. Course contents are as follows:

1. Introduction to Cloud Computing
2. Cloud Computing Models
3. Scalability of Applications
4. Higher Availability Architecture
5. Scalable Resource
6. IP Addressing Schemes
7. Elastic Load Balancer (ELB)
8. Amazon Machine Image (AMI)
9. Relational Database Service (RDS) and S3

## How to Apply

**Online** – The participants may log on to the E&ICT Academy, IIT Guwahati website:

<http://eictacad.iitg.ernet.in> and fill up the application form  
google doc link:

<https://docs.google.com/forms/d/e/1FAIpQLSesiHAOzPQ3FcUoecqZrJ1Xtt7Be4rvJBPLSb1GGgYZufnnaA/view form>

### For Online Transfer

**Bank Name: State Bank of India**  
**Account Name: IIT Guwahati R and D E&ICT Academy**  
**Account No.: 36071160089**  
**IFSC Code: SBIN0014262**  
**Bank Name: State Bank of India**  
**Bank Address: IIT Guwahati, GHY- 39.**

## Registration Form

Name of the Applicant (first, last):

.....

Gender: .....

Category(Gen/ST/SC).....

Designation: .....

Highest Qualification: .....

Name and Address of the Organization/Institute:

.....

City/town:.....

Email:.....

Phone Number:.....

Mobile Number:.....

Do you need hostel accommodation?

(Yes/No):.....

Transaction ID (Applicable for Online Transfer):.....

Signature of the Applicant:.....

Signature and Seal of the Forwarding Authority

Name .....

Designation .....

*Note: i)The Faculty/Staff are requested to submit the NOC from respective department before attending the session.*

*ii) The Faculty member belonging to SC/ST Category need to carry caste Certificate(both in original & photocopy).*

*iii) The participant need to carry the Institute/Organization valid Identity Card(Both in Original & Photocopy).*

*iv)The hostel accommodation will be free for out stationed participants . (For accommodation related queries contact*

*KKR & KSR college. Contact no: 9493925553, 8978692777/repudiramesh@gmail.com)*

## Registration Fee

**Registration Fee (Including Course Material, Snacks and Lunch )**

➤ **Rs. 2,500/-** for Faculty, Lab Technicians and Project Staff..

➤ **Rs. 1,250/-** for Faculty members belonging to ST/SC category.

➤ **Rs. 5,000/-** for Industry Personnel (Subjected to Availability of Seat).

➤ **Rs. 1,500** for Student & Research scholar(Subjected to Availability of Seat) .

Affix  
passport size  
photograph

## Course Outcome

After successful completion of the course the participants would be able to build highly scalable, secure and fault tolerant applications in the Cloud.

## Pre- Requisites for the Course

The participants of the course are expected to have a prior knowledge of the following concepts:

- Basics of Linux
- Basics of networking concepts

## Hands-on Session

The Hands- on session will include the following:

- Setting up a AWS.
- Creating ELB,EBS.
- Creating VPC.
- Creating & connecting to RDS.
- Creating Zones.
- Creating , monitoring & configuring Cloud Watch.
- Setting up an auto-scaled load balanced Amazon EC2 Application.
- S3 static webhosting.
- Creating & configuring CloudFront Distribution.
- Creating Dynamo DB Tables.

## Project & AWS Case Study

All the different services have been explored individually till now. In the project, we would be combining the different AWS services to build a two-tier web application.

### Practical:

- Architecting two-tier applications on AWS

**Contact Hours for the Course**  
**64 Hrs (Theory, Hands-on & Tutorial)**

**For details of the programme and course contents etc., please log on to Electronics and ICT Academy website:**  
**<http://eict.iitg.ernet.in/>**

## Course Coordinators from Academy

- **Prof. Ratnajit Bhattacharjee**  
*Principal Investigator*  
*E&ICT Academy, IIT Guwahati*
- **Prof. Rohit Sinha**  
*Co-Principal Investigator*  
*E&ICT Academy, IIT Guwahati*
- **Dr. Gaurav Trivedi**  
*Co-Principal Investigator*  
*E&ICT Academy, IIT Guwahati*
- **Prof. R Ramesh**  
*Course Co-ordinator,*  
*KKR & KSR Institute of Technology & Science*

## Expert from Academia

The Faculty Members from renowned Institutes will deliver lectures. They will also discuss about the scope of research in the areas and enlightened the participants with the latest development.

## Expert from Industry

- **Mr. Praveen Sripati**  
*Principal Architect,*  
*Kovid Academy, Hyderabad.*

## About Kovid Academy

Kovid Academy is a Data Science-driven Digital Transformation firm, established by serial entrepreneurs with over 100 years of combined experience in growing companies from the ground up. Our faculty consists of widely-recognized experts with an average 20+ years of experience. We offer courses oriented towards creating industry-ready engineers in emerging growth areas, such as Big Data Analytics, IoT, Information Security & Robotics

## Contact Details

**For more details or any queries please contact**  
**Program Manager, E&ICT Academy**  
**IIT Guwahati**  
**Email: [eictacad@iitg.ernet.in](mailto:eictacad@iitg.ernet.in),**  
**[eictacad@gmail.com](mailto:eictacad@gmail.com)**  
**Phone No: +91-7086502139**

## About E&ICT Academy

Electronics and ICT Academy is an initiative of Department of Electronics & Information Technology (DeitY) Ministry of Communications and IT, Govt. of India for Faculty/ Research Scholar Development Programme.

Academy has planned short term training programmes on fundamental and advanced topics in IT, Electronics & Communication, Product Design, Manufacturing with hands on training and project work using latest software tools and systems.

In addition, the Academy will conduct specialized/customized training programmes and research promotion workshops for corporate sector & educational institutions.

## About KITS

KKR & KSR Institute of Technology and Sciences (KITS) was established in the year 2008, by GSR & KKR EDUCATIONAL SOCIETY in Vinjanampadu village, Vatticherukuru Mandal of Guntur district. The Institute is accredited with “A” Grade by NAAC.

### About Department of CSE

The Department of Computer Science and Engineering (CSE) at KKR & KSR Institute of Technology & Sciences was started in the year 2008 and provides an outstanding academic & research environment complemented by excellence in teaching. The Department offers B.Tech and M.Tech degrees. The department has state-of-the-art infrastructure and computing equipment supported by high speed Ethernet and Wireless networks. Various student organizations & associations like INFOMAC, CSI Chapter, are active throughout the year.

