



# 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 **Smart Technologies for Digital India** (Hands-on Practical Training on IoT, Cloud, Big data)



**21 – 24 March 2017**

**Venue**

**Hotel Surya, Shimla, HP**



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

**Centre for Promotion of Professional Excellence**

## Introduction

The Digital India programme is a flagship programme of the Government of India with a vision to transform India into a digitally empowered society and knowledge economy.

The Outcome of the training is to come out with innovative ideas and practical solutions to realise Hon'ble Prime Minister Narendra Modi's vision of a digital India. Prime Minister Modi envisions transforming our nation and creating opportunities for all citizens by harnessing digital technologies. His vision is to empower every citizen with access to digital services, knowledge and information. This Training will come up with suggestions and best practices from around the world to make this vision of a digital India a reality by using **smart technologies** like **Internet of Things(IoT), Big Data, Cloud**.

## Objective

- To understand the Digital India Project.
- To understand the advantages and effective utilization of IoT & Big Data Technologies
- To explore how to utilize cloud computing for Digital world.
- Hands-on Practical on Amazon Web Services(AWS) & R-tool
- To understand the research opportunities in Digital India

## Course Coverage

### Introduction to Digital India Initiatives

- Vision Areas of Digital India
- Digital India – Goals & Challenges
- Nine Pillars of Digital India & Its Impact
- Government Digital India project

### Bigdata Solutions for Digital India

- Bigdata Solutions for Digital India
- Digitization of data and records
- Data Analytics Tools
- Data Analytics using R – tool

### Internet of Things(IoT)

- Internet of Things (IoT) Overview
- Advantages of IoT.
- Layer of IoT and its role
- IoT Systems Designing
- Understanding Internet of Things (IoT) design & Applications

### Cloud Technology for Digital India

- About Cloud Computing
- Benefits of Cloud Technology for Digital India
- Cloud Computing Architectures
- Cloud Computing Components
- Private vs. Public vs. Hybrid Clouds
- Infrastructure for the Cloud
- Cloud Development Life Cycle
- Emerging Cloud Platforms
- Cloud Infrastructure Management
- Private space on a public cloud
- **Cloud Computing Service using AWS** (Amazon Web Services)
- Cloud Infrastructure Management using **AWS**
- Cloud computing & Security
- Research Areas in Cloud

### Research Areas in Digital India

**Note: Participants should bring their Laptop for Hands-on Practical & Case Studies**

## 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.

## Target Participants

- ❖ 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 in Digital India, Cloud Technology Bigdata & e-governance

## Benefits to the participants

- ❖ After completing this course, the Participant will be able to know effective utilization of Amazon web Services(AWS) , R-tool & IoT.
- ❖ Hands-on Practical experience on Amazon web Services(AWS) & R-tool

## Programme Venue, Dates & Timings



**Venue:** Hotel Surya, Shimla, HP

**Dates:** 21 – 24 March 2017, **Timings:** 09:30 – 17:00 hrs

### Course Director

**Mr. Syed Azgar**

Faculty & Manager-IT, Information Technology Division, ESCI

### Course Fee

₹ **40,000/- (Residential Fee – Inclusive of 15% Service Tax)** per participant. Fee includes **Twin-sharing AC Accommodation**, course material, course kit, Breakfast, Lunch, Dinner Tea / Coffee and Snacks during the actual days of the training program.

₹ **30,000/- (Non- Residential Fee– Inclusive of 15% Service Tax)** per participant. Fee includes course material, course kit, Lunch, Tea / Coffee and Snacks during the actual days of the training program.

**Service Tax @15%** is included in the training fee as training is also brought under the purview of Service Tax in Finance Bill 2010. **PAN Card No.** AAATT3439Q. **Service Tax Registration No.** AAATT3439QST008

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 S – SB A/c No. 10007111201 with The SBI, PBB Rajbhavan Road Branch, Khairatabad, Hyderabad – 500 004 by RTG's / NIFT / IFSC Code No: SBIN 0004159 – MICR No: 500002075. **While using EFT/Draft method of payment, kindly forward a covering letter giving details on the name of the participants, Title and the programme schedule so that proper accounting can be done.**

Online registration shall be available on ESCI webportal IT Domain, on [www.escihyd.org](http://www.escihyd.org).

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 :

### 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 the 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 Hotel rules (subject to availability of accommodation)
- **Single Accommodation : Rs.1000 per day**
- **Family Accommodation: Rs.1000 per day (Exclusive of Food charges).**