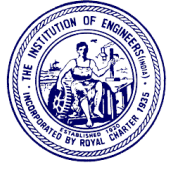




Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



INFORMATION TECHNOLOGY DIVISION

FACULTY DEVELOPMENT PROGRAMME

The Internet of Things (IoT) for Digital World (Hands-on Practical Training)



07 – 09 Feb 2018



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

Centre for Promotion of Professional Excellence

Introduction

Internet of Things (**IoT**) is a new technology in the digital world. It promises to combine the physical world with the digital world. The **internet of things (IoT)** is the internetworking of physical devices like smart devices, vehicles, electronics, embedded systems, wireless sensor networks, control systems, including home and building automation. Experts estimate that the IoT will consist of almost 50 billion objects by 2020.

The Internet of things (**IoT**) allows objects to be sensed and/or controlled remotely across existing network infrastructure, creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit.

Internet of things (IoT) has evolved due to a convergence of multiple technologies, including ubiquitous wireless communication, real-time analytics, machine learning, commodity sensors, and embedded systems. This means that the traditional fields of embedded systems, wireless sensor networks, control systems, automation and others all contribute to enabling the internet of things (IoT).

This training includes not only theoretical understanding of the different sensors, cloud platform and gateways, but also hands-on integration of IoT components with Cloud platform.

Objectives

- You can gain in-depth knowledge of IoT applications and can build your own end-to-end solutions.
- To understand IoT System Designing.

Course Coverage

- Internet of Things (**IoT**) Overview
- Advantages of **IoT**.
- Layer of **IoT** and its role
- **IoT** Systems Designing
- Understanding Internet of Things (**IoT**) design & Applications.
- Embedded Systems design for IoT: Microcontrollers, End Nodes, Gateways.
- Wireless Technologies & Applications for **IoT**
- Networking Technologies & Protocols for **IoT**
- Cloud Computing for **IoT**
- Big Data for **IoT**
- Mobile App Development for **IoT** Applications
- ARM Microcontrollers for **IoT** Applications
- **IoT** devices security
- Research opportunities in **IoT**

Methodology

Methodology of the programme includes class room sessions with Lecture and Hands-on Practical's / case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

Target Participants

- Technical Managers, Data Managers, Engineers, Scientist and People working in Government, Public sector, Private sector and Defence Organizations.
- Faculty / Professors / Research scholars/ Technical staff members of Engineering Colleges and Universities
- All the Managers / Executives/ Engineers who are interested in the internet of things (IoT).

Programme Venue, Dates & Timings

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

Dates

07– 09 Feb, 2018

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 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.**

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, Portal: 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.