

## **Internet of Things**

### **Objectives**

- Internet of Things is one of the emerging technology which is fast adopted by enterprise and the vibrant startup community. Not only the business needs but it is also touching the lives of the needy.
- Come and Explore IBM Bluemix Watson IoT platform !!
  - Tools and techniques to be used for developing applications utilizing IoT device data.
  - Enable participants to quickly get started with writing their code using IBM Bluemix Platform
  - Provide hands-on experience in IBM Bluemix IoT Foundation Services. Sessions will provide hands-on experience with various languages and tools covered in the lectures. They comprise a brief introduction to the programming assignments, followed by independent Labs. To help with the Labs, teaching assistants will be available in person and via the web.
- Present case studies from IoT

### **By the end of the workshop, participants will:**

- Be exposed to computational thinking skills for accelerating applications in science and engineering.
- Understand the most important architectural performance considerations for developing parallel applications.
- Be able to design algorithms that are appropriate for accelerators.
- Engage computing accelerators on science and engineering breakthroughs.

### **Target audience**

Anyone who want to learn developing exciting applications using IoT Gateways, as well as those who want to develop programming tools and future implementations for these processors:

- Students, Faculty and Researchers from Academic Institutes
- Researchers from Govt. Research Organizations
- Engineers / Researchers from Industry

### **Prerequisites**

- Basic programming knowledge , IoT Gateway Knowledge
- Laptops wifi connectivity to explore IBM Bluemix Platform – IoT Foundation

### **Topics to be covered in the workshop :**

- IBM Bluemix
- Watson IoT Platform
- Internet of Things – Use cases
- Data exploration using Node Red
- Demo

## Hands on Lab

- Simulator or Simulated data
- Data publish and explore using Node Red nodes
- Usage of Watson IoT platform
- Data exploration using cloudant

**Note:**The schedule and topics are standard and tentative, will be revised and updated if necessary. Software stack for hands-on session would be provided. Exam and assignments are part of the training and would be conducted during or after the workshop.

Please register on IBM Bluemix using any email id, Sign up on <http://console.ng.bluemix.net>

