The **Internet of Things** (**IoT**) is the network of physical objects or "things" embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data. It is an environment in which animals, objects or people with unique identifiers are able to transfer data over a network without requiring human-to-computer or human-to-human interaction. IoT has evolved from the convergence of wireless technologies, micro-electromechanical systems (MEMS) and the Internet.

The workshop aims to provide hands on experience to the participants to interface the things for different applications using the Arduino kit with devices such as sensors and actuators. Also, enables the participants to connect the Arduino device to cloud.

## Registration Fee

| | |
|---|---|
| Students | :- Rs. 750/- |
| Faculty | :- Rs. 1000/- |
| Industry person | :- Rs. 1500/- |

Send Registration Form to :-

Dr. S. Sudha
Associate Professor ,
Department of Electrical and
Electronics Engineering,
National Institute of Technology,
Tiruchirappalli, TamilNadu.
Email: sudha@nitt.edu

Phone No. - 09443329313

### Logon To:

**www.nitt.edu**

*Two days Workshop on Internet of Things (IoT) Using Arduino*

13th-14th November, 2015

Co-Ordinator
Dr. S.Sudha

**Organized By**

**Department of Electrical and Electronics Engineering National Institute of Technology Tiruchirappalli Tamil Nadu - 620 015**

## About NIT, Trichy

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu was started in 1964 with a view to catering to the needs of man-power in technology for the country. This institution was granted Deemed University Status in the year 2003 and renamed as National Institute of Technology, NIT-T. The institution offers Under Graduate Courses in ten branches and Post Graduate Courses in twenty one disciplines of Science, Engineering & Technology besides M.S. (by Research) and Ph.D. in all the departments.

## About EEE, Department

The Department of Electrical and Electronics Engineering of NITT started in the year 1964, offers one Undergraduate Programme (B.Tech.), two Postgraduate Programmes (M.Tech. in Power Systems & Power Electronics) and Research programmes (M.S. & Ph.D.) in various fields of Electrical and Electronics Engineering. The Department is recognized for excellence in research, Teaching and service to the profession.

## SCOPE OF THE WORKSHOP

**Day 1**

1. Basic Python Introduction

2. Cloud Computing

3. Python script development

4. Introduction to App Builder

5. Control and connect via Apps.

**Day 2**

1. Wireless Sensor Networks

2. Arduino Programming

3. Bluetooth Integration

4. Wi-Fi Setup

5. Full IoT setup (Testing & Application)

Last Date for Receiving the Application:
7th November, 2015
Intimation of Acceptance:
11th November, 2015

## REGISTRATION FORM

**Name:**

**Designation:**

**Contact Address:**

**Email:**

**Phone:**

**Payment Details**

**DD Number:**

**Amount:**

**Name of the bank:**

**(DD should be drawn in favour of "The Director, NIT, Tiruchirappalli" payable at Tiruchirappalli).**

**Signature of the applicant**