TOPICS

1. IoT & it's Applications
2. Plotting sensor values to cloud
3. MQTT protocol implementation
4. AI Model Generation
5. IoT Analytics

HANDS ON TRAINING ON

1. Arduino UNO
2. ESP 32 NODE MCU
3. Raspberry Pi
4. IoT Application Development
5. Prototype Creation

DEMO

1. Udoo Neo
2. Intel Up Board
3. Intel movidius Neural Compute Stick

PREREQUISITE

Basic knowledge in Python Programming

IMPORTANT DATES

Last date for receipt of
DD through post
26th Nov., 2018
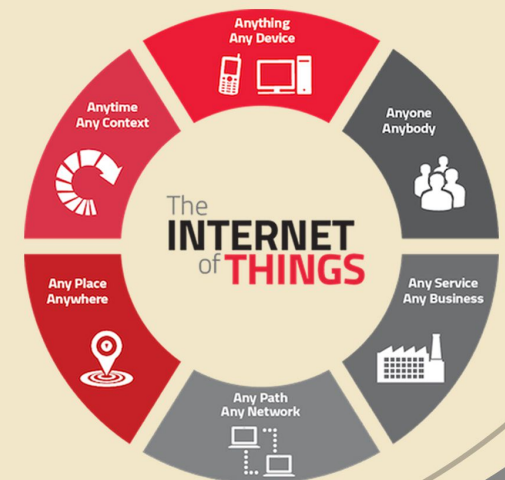
TARGET AUDIENCE

Faculty members
Research scholars

COORDINATORS

Dr. B. Janet, CA Dept, NIT Trichy
(janet@nitt.edu, 0431-2503741)

Dr. R. Eswari, CA Dept, NIT Trichy
(eswari@nitt.edu)

AidelTecz

SHORT TERM COURSE
ON
IoT & SECURITY

3rd To 7th DEC 2018

The INTERNET of THINGS

- Anything Any Device
- Anyone Anybody
- Any Service Any Business
- Any Path Any Network
- Any Place Anywhere
- Anytime Any Context

DEPARTMENT OF COMPUTER APPLICATIONS

NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 620 015TT

THE INSTITUTE

The National Institute of Technology, Tiruchirappalli was established as the Regional Engineering College (REC) in 1964, the salubrious campus became NIT, Tiruchirappalli in 2007 and is an Autonomous Institution under MHRD, Government of India. It has distinguished itself on the national scene this year by being ranked first among the 31 NITs (third year in a row) and Eleventh among all the technical institutes in the country by the National Institute Ranking framework (NIRF) of the Government of India.The Institute has 17 Academic departments and runs 10 UG Programmes, 27 Masters Programmes, MS by Research and Ph.D. Programmes in major fields of Engineering, Sciences, Humanities and Management.

THE DEPARTMENT

The Department of Computer Applications is one of the pioneering departments of the institution that offers Information Technology courses. This department currently offers three full-time post-graduate programmes, three-year Master of Computer Applications (MCA), two-year Master of Science in Computer Science and two-year M. Tech. in Data Analytics. The department comprises of thirteen faculty members (all of them with doctoral degrees) and is actively involved in research besides teaching. The persistence of the dedicated faculty in maintaining the standards is manifest in the successful placement records and number of Ph. Ds completed.

SCOPE OF COURSE

The internet of things (IoT) is a system of interconnected computing devices, mechanical and digital machines, objects, animals or people who are provided with sensors and the ability to transfer data over a connected network without requiring human-to-human or human-to-computer interaction. IoT is an intelligent technique which reduces human effort and enhances access to physical devices. It provides autonomous control features and automates various tasks and increases productivity. It has brought a revolution in the Industry by providing proactive monitoring. IoT analytics provides the big data needed for intelligent decision making. The current research is focussed on edge security of IoT devices.

ABOUT AIDELTECZ

AidelTecz is concentrating on the complete AI, IoT products ranging from model generation to implementation of the model at the edge devices. To enhance the knowledge sharing culture they are providing training in all aspects of IoT, AI, Deep Learning and Computer vision products.

THE OBJECTIVE OF THE PROGRAM

- ☑ **Understanding the IoT concepts**
- ☑ **Plot and analyze sensor values on cloud**
- ☑ **Building IoT based prototypes**
- ☑ **Security protocol implementation in IoT Technology**

REGISTRATION PROCEDURE

1. Demand Draft (DD) should be taken in favor of " THE DIRECTOR, NIT TRICHY" payable at "TRICHY".

2. Proceed with link below for Registration.

Link: goo.gl/forms/uaj6on7ZQRRxQtvP2

3. DD shall be sent to the following postal address on or before 26th Nov 2018.

> To
> **The Coordinators,(Attn:Dr. B. Janet)**
> **Department of CA,**
> **NIT, Trichy-620015**

Registration Fee (including GST)

Research Scholars - 2000/-
Faculty - 2500/-

A maximum of 40 participants will be considered on first come first serve basis

Registration fee includes course certificate and software tools.

Lunch will be provided only for external participants