

## OBJECTIVE

Internet of Things (IoT) is changing the way we live. The development of low cost devices that collect huge volume of data and also interact with each other makes IoT a reality. The advantages of cloud-based storage, fog computing could be utilized for remote control of the network.

The popularity of the open source, multiplatform supporting python programming language over the past years made it as a mainstream programming language for embedded systems. It is simple language to learn and easy to implement and deploy. A 'thing', which could literally be anything, is fitted with an embedded system which connects it to the internet, in other words, it has its own IP address. This thing may now interact with other things, remote or local over the internet

This workshop explains the concept of IoT and research issues associated with it. It also deals with the hands-on training on python programming for embedded devices. At the end of the workshop, the participants can apply these programming in solving problems related to automation in different domains such as smart home automation, industrial automation, and environmental monitoring.

## COURSE CONTENTS

- Introduction to Python, Modules and Packages for IoT.
- Hands on training on Intel Edison Board and Sensor interfacing.
- Webserver for data collection

## TARGET AUDIENCE

UG students from EEE department restricted to 16 members on first come first serve basics.

## RESOURCE PERSONS

**Dr.S.Srinath, HOD/EEE**  
**Dr.A.BalajiGanesh, Prof/EEE**  
**Mr.S.Vijayakumar, AP/EEE**  
**Mrs.V.Umayal Muthu, AP/EEE**  
**Mr.A.Pravin Renold, AP/EEE**

## REGISTRATION

The applicants can submit their duly filled in registration form in the given format along with Rs.100/-. Selected candidates will be informed through E-mail.

## IMPORTANT DATES

Submission of Application : 7.1.2018  
Intimation of Selection : 8.1.2018  
Confirmation to participants : 9.1.2018

**VELAMMAL ENGINEERING COLLEGE**  
SURAPET, CHENNAI- 600066

One Day Workshop & Hands on  
Training on

**“Python for IoT based Automation”**

**Phase I - 11.01.2018**  
**Phase II - 12.01.2018**  
**Phase III - 24.01.2018**

## APPLICATION FORM

Name :  
Branch :  
Gender :  
Semester & Section :  
Mobile Number :  
E-mail ID :

Signature :

Signature of FA

Signature of HOD

### CHIEF PATRON

**Thiru.M.V.Muthuramalingam,Chairman,VEC**  
**Thiru.M.V.M.Velmurugan,CEO,VEC**

### PATRONS

**Dr.M.Balasubramanian, Advisor, VEC**  
**Dr.N.Duraipandian, Principal, VEC**  
**Dr.B.Venkatalakshmi, Vice Principal, VEC**

### CONVENOR

**Dr.S.Srinath, Professor & HOD/EEE**

### COORDINATORS

**Mrs.V.Umayal Muthu, AP/EEE**  
**Mr.A.Pravin Renold, AP/EEE**  
**Mr.S.Vijayakumar, AP/EEE**

### ADDRESS FOR COMMUNUCATION

**Mrs.V.Umayal Muthu/ Mr.A.Pravin Renold**

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### ABOUT THE INSTITUTE

Velammal Engineering College was established during 1995-1996. It is accredited by NBA and NAAC. It offers 9 UG, 3 PG and several research programmes leading to Ph.D. degrees. VEC has several centers of excellence and Research laboratories. The College has signed MoU with research organizations and industries in-order to promote closer interaction in the areas of technology development, training of students, curriculum updation and development of state-of-art centers. The College is well-equipped with laboratories for all branches of Engineering. Due to the excellent academic climate in the campus, UG and PG students of our College enjoy good campus placement prospects.

### ABOUT THE DEPARTMENT

The Electrical and Electronics Engineering department was established as full fledged department in the year 1995.The department offers 4-year UG programme with an intake of 120 and 2- year PG programme (M.E Power system Engg) with an intake of 18. The Department is aiming at the development of student community to face the future world with the latest technical knowledge through research, good leadership qualities, Industry-Institute Interaction and sprit of competence. The department is equipped with well qualified and experienced faculty members imparting high quality of discipline and engineering education. The department has been consistently producing illustrious Engineering graduates of high caliber who occupy prestigious positions in the academic and industrial fields. The Department computer centre has the most versatile, powerful and widely networked computer systems with software like Mi power 5.0, MATLAB, ETAP 5.5.0 and PSCAD 4.2.1.The Department is a Nodal Centre for Anna University, Chennai.

IEEE sponsored One  
Day Workshop &  
Hands on Training on

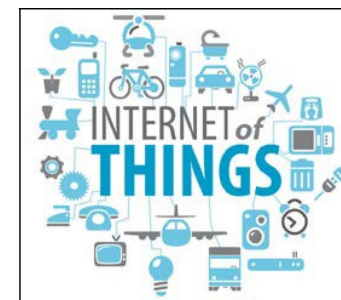


### “Python for IoT based Automation”

Phase I - 11.01.2018

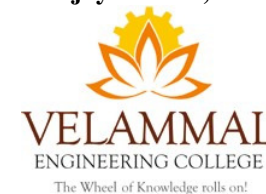
Phase II - 12.01.2018

Phase III - 24.01.2018



### Coordinators

**Mrs.V.Umayal Muthu, AP/EEE**  
**Mr.A.Pravin Renold, AP/EEE**  
**Mr.S.Vijayakumar, AP/EEE**



**Organized By**  
**Department of EEE, Velammal**  
**Engineering College, Ambattur-**  
**Redhills Road, Surapet,**  
**Chennai- 600 066**