



Develop Your First Internet of Things

(IoT) Device (TECS2122)

Introduction

Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. In many cases, devices are connected via the network or WiFi and the data exchanged between devices could be used to control a device remotely or to collect data. Examples of IoT applications include: smart home, remote control your air conditioner using an App with your cell phone or monitoring your electric bill. In this project, you will learn how to develop an IoT application by programming the ESP8266 processor which is widely used in low-end IoT systems.

Programme Type / Level

Intermediate Workshop in Technology ([Token-required](#))

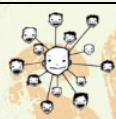
Instructor(s)

Dr Isaac Yu-fai Fung
(Senior Teaching Fellow, Department of Electrical Engineering, The Hong Kong Polytechnic University)

Pre-requisite

No special prerequisites are needed

Target Participants



- S4 to S6 HKAGE student members only in 2019-20 school year
- Class size: 30
- * First-come, first-served

Medium of Instruction



English with English handouts

Certificate



E-Certificate will be awarded to participants who have:

- ❖ Attended **ALL 2 sessions**; **AND**
- ❖ Completed all the assignments with **satisfactory performance**

Intended Learning Outcomes



Upon completion of the programme, participants should be able to:

1. Understand the basic architecture of developing an IoT system;
2. Learn how to implement an IoT system based on the ESP8266.

Application Deadline

~~10 Feb 2020, 12:00 n.n.~~ ~~23 Mar 2020, 12:00 n.n.~~

Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

Schedule



Session	Date	Time	Venue
1	15 Apr	9:30 a.m.—12:30 p.m.	Room EF402, 4/F, Core EF, The Hong Kong Polytechnic University
2	2 May Cancelled	2:00 p.m.—5:00 p.m.	

¹Address: Hung Hom, Kowloon, Hong Kong ([Map](#))

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".