

FEES

5-days session including
breakfast and lunch.
~~USD 600~~ **Now only for
USD 450**

**Note and certificate will be
provided!**

Intake are limited up to 20
participants per session.

INTERESTED?

Register now via link below

bit.ly/PKASIoTA2E2W

or contact

Ms. Mas Ayu Othman

☎ 03 - 89216600

☎ 012 - 5455112

@ kckalai.ra001@gmail.com

PKAS

Advisor

Prof. Dr. Norbahiah Misran

Chief of Director

Dr. Kalaivani Chellappan

Secretary

Ms. Mas Ayu Othman

Treasurer

Mr. Muhammad Syafiq Abdul Razak



INTERNET OF THINGS: AN ARDUINO ADVANCED EXPERIENTIAL EXPLORATION WORKSHOP

- Organized by
 - Program Pemerkasaan Kompetensi Akademik Siswa,
 - Fakulti Kejuruteraan & Alam Bina UKM

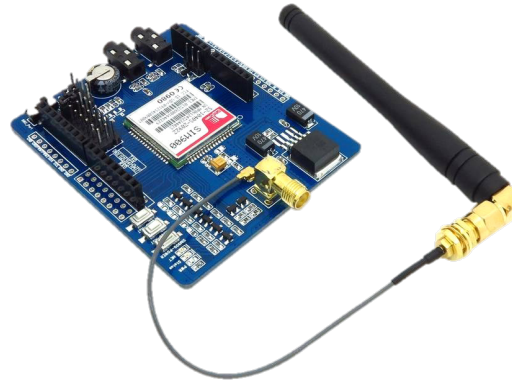
INTRODUCTION

The Arduino is an open-source computer hardware/ software platform for building digital devices and interactive objects that can sense and control the physical world around them. In this workshop, you will learn how the Arduino platform works in terms of the physical board and libraries and the IDE (integrated development environment). You will also learn about shields, which are smaller boards that plug into the main Arduino board to perform other functions such as sensing light, heat, ultrasonic, GSM, GPS tracking, Bluetooth, Wi-Fi, XBee or providing a user interface display. The course will also cover motors such as servo, DC and Stepper with driver circuit. Further exploring Arduino's capacity in digital electronics design in the usage of shift register, A/D MUX, 7 segment display and LCDs.

OBJECTIVES

This workshop is made to:

- To establish Arduino codes for sensor and motor control applications
- To establish communication between Arduino and multiple tracking modules
- To establish interface between Arduino and communication modules
- To explore Arduino's potential in digital electronics design



SCHEDULE

TIME	EVENT
DAY 1	
	<i>Introduction to Embedded System</i>
	<i>Introduction to Open Source platform</i>
	<i>Introduction to Software Tool Chain</i>
DAY 2	
	<i>Interfacing of I/O devices</i>
	<i>Sensor Circuit Assembling</i>
DAY 3	
	<i>ADC Interface</i>
	<i>Serial Communication Interface</i>
	<i>IoT – Embedded System</i>

