

Intel Edison Workshop 2016

Event Agenda: Day 1-2

Date: 5th and 6th December 2016, IoT Development with Intel Edison

Venue: Laboratory 4 Level 3 School of Computer Science Universiti Sains Malaysia Penang 11800

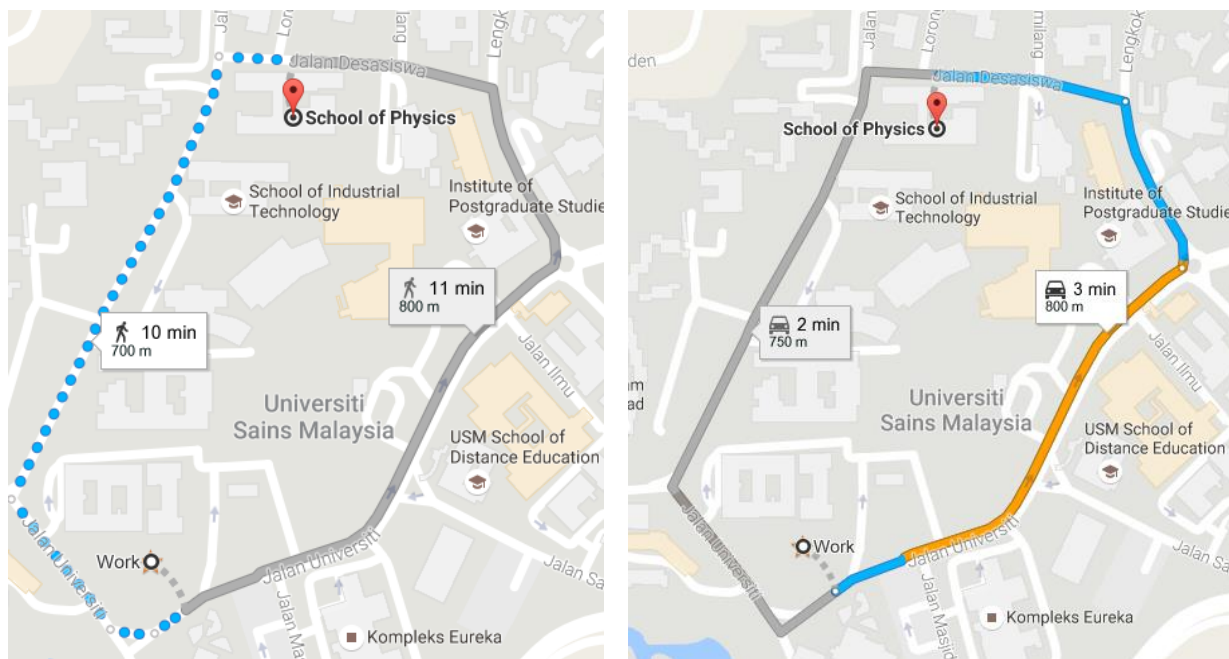


Day 1 - Introduction to Intel Edison		Venue
0830 - 0910	Registration Welcoming speech by Dean, School of Computer Science USM	Lab 4, Level 3
0910 - 1030	<ul style="list-style-type: none">➤ Introduction to Intel Edison➤ Hardware specifications➤ Preparing Intel Edison development➤ Basic with Arduino IDE and Sketch programming➤ Run simple Blink example➤ Introduction to analog & digital pins➤ Code Challenge - write codes with Arduino IDE for Grove Indoor Environment Kit<ul style="list-style-type: none">• Button (Arduino IDE Examples)• Moisture sensor• UV sensor• Light sensor• PIR sensor	Lab 4, Level 3
1030 - 1100	Tea break	BJIM Level 5
1100 - 1245	<ul style="list-style-type: none">➤ Code Challenge (continued) - manipulate and modify codes➤ A quick introduction to Node.js➤ Introduction to Intel XDK IoT Edition➤ Preparing Intel Edison development with Intel XDK IoT Edition	Lab 4, Level 3
1245 - 1400	Lunch break // prayer	BJIM Level 5

1400 - 1530 1530 - 1700	<ul style="list-style-type: none"> ➤ Introduction to Libmraa library (and Johnny-five) ➤ Code Challenge - rewrite codes with Intel XDK IoT Edition (Node.js) 	Lab 4, Level 3
1530 - 1600	Tea break	BJIM Level 5
1600 - 1700	<ul style="list-style-type: none"> ➤ Useful tools and Linux commands for development 	Lab 4, Level 3

Day 2 - Internet of Things (IoT) Part 1		Venue
0900 – 1030	<ul style="list-style-type: none"> ➤ Code Challenge – Edison-Servo with Johnny-Five ➤ Build HTTP-ExpressJS server on Intel Edison ➤ Introduction to Socket.IO ➤ Code Challenge - apply Socket.IO on Edison-Servo 	Lab 4, Level 3
1030 - 1100	Tea break	BJIM Level 5
1100 - 1245	<ul style="list-style-type: none"> ➤ Build first Mobile-slider HTML5 app with Intel XDK IoT Edition ➤ Code Challenge - connect HTML5 mobile application to Edison-Servo 	Lab 4, Level 3
1245 - 1400	Lunch break // prayer	BJIM Level 5
1400 - 1530	<ul style="list-style-type: none"> ➤ Demo: Edison-Servo with Mobile Slider HTML5 app ➤ Code Challenge - build simple web application ➤ Code Challenge - stream-in data from Intel Galileo/Edison to web application 	Lab 4, Level 3
1530 - 1600	Tea break	BJIM Level 5
1600 - 1700	<ul style="list-style-type: none"> ➤ Final Code Challenge - Deploy Intel Galileo/Edison, web application and HTML5 mobile application ➤ Introduction to MQTT and demo 	Lab 4, Level 3

Venue: Laboratory 100, Level 1 School of Physics Science Universiti Sains Malaysia Penang 11800



Day 3 – Demo on Power Application with Intel Edison		Venue
0900 - 1030	UPM sharing session // Prof Ishak	Lab 100, School of Physics
1030 - 1100	Tea break	
1100 - 1245	UPM sharing session // Prof Ishak (cont.) Closing ceremony	Lab 100, School of Physics
1300 - 1400	Lunch break // end	