

ONLINE DIGITAL CLASS

INTRODUCTION TO ARDUINO

23 OCTOBER 2021 | SATURDAY

9.00 AM – 11.00 AM

BEM Approved CPD/PDP Hours: 2

Ref. no: **IEM21/HQ/383/T (w)**

Registration Fee:

Student Member: Free

IEM Member: Rm15

Non-Member: RM70

Build Your Project with Arduino for Engineers

In this Digital Class, participants will explore Arduino basics to build up their familiarity with the electronics hardware, sensors and output. Arduino is an open-source electronic hardware for makers, designers, engineers, students and curious tinkerers of all ages. With Arduino (IDE), students will explore new libraries and programming syntax for managing sensors and output.

On the first module, participants will learn the microcontroller theory and basics of circuitry, electronic output, and coding and electronic input and coding. Participants will try different types of sensors and trinkets configurations and different control logics and operation parameters to understand how sensor and output trinket works.

On the second module, participants will learn the combination of electronic output input and then the process of project creation. Participants will try different types of input and output combination and different control logics and operation parameters to explore further how sensor and output trinket can interact with each other.

On the final module, with knowledge in microcontroller circuitry, input and output and Arduino software platform, participants will start to build and code their own project. Participants will finally present their idea.

NOTE:

As this is a hands-on class, best for participant to **have Arduino Kit** similar to Maker Uno Edu Kit: <https://my.cytron.io/c-arduino-ecosystem/c-Kits-Based-on-Arduino/p-maker-uno-edu-kit-arduino-compatible>

And install Arduino IDE that is available on this link: <https://www.arduino.cc/en/software>

SPEAKER PROFILE



Ir. Amir Hussein Bin Jaafar graduated from University of Technology Petronas (UTP) with Bachelor Engineering (Electrical and Electronics) and from Universiti Teknologi Malaysia (UTM) with Master of Science (Real Time Software). He is registered as a Professional Engineer (Electronics) status with Board of Engineers Malaysia since 2007. He has more than 22 years of experience in electronics hardware and embedded software development projects, and development and testing of advance powertrain and electronic control system for automotive application. With the industry experience, he has been giving specialized green technology training to TVET trainers and conducting STEM courses for school and university students and working professionals since 2016. He was awarded the HRDF Certified Trainer in 2020 and is currently the Technical Director for Micro Concept Tech Sdn Bhd.

Register online at www.myiem.org.my