IOT (INTERNET OF THINGS)

IOT (INTERNET OF THINGS)

➡ Course Objective

- ➢ Understand the principles of IoT, including IoT components and communication techniques
- ➢ Learn how to use Arduino communication modules that can be used for different IoT systems
- ➢ Learn how to use and program a mobile app to control Arduino
- ➢ Use a WiFi module to connect the Arduino to another device
- ➢ Build and deploy their own IoT Sensor System

➡ Target Audience

- ➢ Hobbyists
- ➢ Hardware/software engineers and technicians
- ➢ Technical persons in all industries
- ➢ Beginner developers

Asia Masters Center

➡️ **Course Outline**

➢ Introduction to IoT
➢ Understanding IoT Fundamentals
➢ Examples of IoT Devices and Platforms
➢ Overview of IoT Components
➢ Analog Sensors
➢ Digital Sensors
➢ Overview of IoT Communication Techniques
➢ WiFi
➢ Bluetooth
➢ RFID
➢ Mobile Internet
➢ Arduino Refresher
➢ Arduino Communication Modules
➢ Bluetooth Modules
➢ WiFi Modules
➢ RFID Modules
➢ I2C and SPI
➢ Using a Mobile App for Arduino IoT
➢ Overview of Blynk Mobile App for IoT
➢ Installing Blynk
➢ Interfacing Arduino and Blynk via USB
➢ LED Blinking
➢ Controlling a Servomotor
➢ ESP8266 WiFi Serial Module
➢ Overview
➢ Setting Up the Hardware
➢ Interfacing with Arduino
➢ Programming with Arduino

- Creating an IoT Temperature and Humidity Sensor System
- Overview of DHT-22 Sensor
- Interfacing the Hardware: Arduino, ESP8266 WiFi Module, and DHT-22 Sensor
- Checking Your Data via ThingSpeak
- Connecting Your Arduino Set-up to Blynk via WiFi

➢ **The Feature Of Asia Master Training And Development Center**

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

The Cost Of The Training Program Includes The Following:

1) Scientific article on flash memory.
2) Training Room.
3) Training.
4) Coffee break.
5) The training bag includes all the tools for the course.

Price (USD)
Communicate with the training department to know the participation fees   ➢ **There are offers and discounts for groups**
The details of the bank account
Bank name: CIMB Bank Berhad   **Account name: Asia Masters Center SDN. BHD**   **Bank account number: 80-0733590-5**   **Swift code: CIBBMYKL**   **IBAN: Null**