Introduction to IoT

Welcome to Day 1 of our IoT Workshop! Today, we introduced the basics of IoT through presentations and hands-on activities, covering topics from setting up your development environment to hardware essentials and simple programming.

1. IoT Intro Presentation

2. Setup Development Environment

- VS Code.
- Install Platformio extensions
- (in some cases) Install the missing USB Driver for the CP210x USB to UART Bridge

3. Hardware Review

- AMC Core Kit by EOLab
- Breadboard Overview

5. Coding Warm-up

Now let's check if your Microcontroller works. Also, you will learn how to upload your first sketch. Basic Blink example:

main.cpp

```
#include "Arduino.h"

void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH);  // turn the LED on (HIGH is the
voltage level)
  delay(1000);                      // wait for a second
  digitalWrite(LED_BUILTIN, LOW);   // turn the LED off by making the
voltage LOW
  delay(1000);                      // wait for a second
```

```
}
```

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Last update: **2026/05/28 23:15**