Overview

The **Basic IoT Training System** is a comprehensive educational platform designed to provide hands-on learning in **Internet of Things (IoT)** concepts, including device communication, firmware development, cloud integration, and mobile monitoring. It enables students to design, program, and connect smart IoT devices using **Wi-Fi**, **Bluetooth**, and **Gateway-based networks** — all packed in a **portable bag-type system** for easy movement and space efficiency.

The training kit Content:

- Enable to study IoT technical element (Content) - (Platform) - (Network) - D(Device)
- Provide step-by-step curriculum based on the Firmware development
- Implement WIFI / Bluetooth IoT device through Arduino firmware development
- Beacon practice using Bluetooth device
- Various IoT smart device development using sensor or actuator
- Enable to study IoT device connect and management method using Gateway
- Development IoT service using IoT Cloud Platform
- Consist bag type to easy movement and efficient space utilization
- Device Monitoring and Control using Android App

Overview

- Embedded Gateway
- Embedded Device (Camera)
- BLE Device Base
- WIFI Device Base

Provided Sensors & Actuators:

- Relay, LEDs (Red, White, Green, Blue), Grayscale, Temperature, Light, Vibration, Tilt, Push Button, Touch, Magnetic, Sound, CO, Voltage Divider, Rotation, Servo Motor, Flame, Accelerometer, Infrared Motion, Distance, Moisture, FND.

Environment:

- Android App: Real-time data monitoring, sensor state checking on Log Tab, actuator control on Control Tab.
- Arduino Program: Firmware development for smart devices (sensors, actuators) and communication (WiFi, BLE, Network), IoT service integration.

Beacon Practice:

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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- Use BLE devices to enable data transmission to mobile devices within a specific range.

Cloud IoT Platform:
Includes at least one of the following:
- Fully accessible subscription cloud platform.
- Local cloud IoT platform with storage solutions compatible with the unit.

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