IoT (Internet of Things) Workshops

Welcome to IoT (Internet of Things) Introductory Workshop series. This series offers an exploration of the transformative potential of the Internet of Things, focusing on the integration and application of IoT sensors in creating intelligent, interconnected systems. Throughout these workshops, participants will gain valuable insights into various sensor technologies, practical applications, and hands-on techniques for designing and deploying IoT solutions.



Materials

- 15x WEMOS D1 Mini (ESP8266)
- 15x Soil Moisture Sensor Hygrometer Module V1.2
- 15x VL53L0X
- 15x GY-271
- 15x USB to microUSB cables
- 15x Breadboards
- 30x LEDs
- 20x Buttons
- 1x Resistors kit
- Set of jumper wires

Extra material:

- 1x Documentation camera
- 1x Router

Sessions

- Day 1 (Monday 09 September) Introduction to IoT
  - Whirlwind Tour Of IoT
  - Setup Development Environment
  - Hardware Review
  - Soldering

    - Coding Warm-up
- Day 2 (Tuesday 10 September) Sensors and Communication
- Day 3 (Wednesday 11 September) Communication with MQTT

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