

Module 6: Basics of IoT

Session 11: Basics of IoT

- Learn IoT fundamentals, working, and components; explore ESP32 microcontroller and compare it with Arduino UNO.

Module 7: Sensors & Actuators in IoT

Session 12: Sensors Data Collection

- Connect and program DHT11 sensor with ESP32 to display temperature data.

Session 13: Display & Control Systems

- Interface LCD I2C display with ESP32; build a temperature-controlled fan project.

Module 8: IoT Connectivity & Cloud

Session 14: IoT Network Basics

- Understand Wi-Fi and cloud setup; connect ESP32 to Wi-Fi and install required libraries.

Session 15: IoT Platforms

- Explore IoT platforms (ThingSpeak, Blynk, Adafruit); create and set up a ThingSpeak account.



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