

#	Section	Recommended Tools & Components	Covers (Courses)
1	Basic Kits	Arduino Uno, ESP32 DevKit, STM32 Nucleo, Breadboard, Jumper Wires, USB Cables	Intro to Embedded & IoT (Course 1)
2	Digital Electronics	Logic Gate Trainer, LEDs, Resistors, Push Buttons, Multimeter, Oscilloscope (basic)	Digital Electronics Fundamentals (Course 2)
3	MCU Programming	Arduino IDE, PlatformIO, C/C++ Compiler, USB-to-Serial Converter, Debugger/Programmer	Microcontrollers & Programming Basics (Course 3)
4	Sensors & Actuators	Temperature & Humidity Sensor (DHT11/DHT22), Ultrasonic Sensor, PIR Motion Sensor, Servo Motor, Relay Module, Power Supply	Sensors & Actuators (Course 4)
5	IoT Connectivity	Wi-Fi Router, MQTT Broker (Mosquitto), SIM800/LoRa Modules, Cloud Accounts (AWS IoT, Azure IoT), SSL Certificates	Communication Protocols, IoT Cloud & Security (Courses 5-8)