



Description

The Arduino Advanced Learning Kit is a comprehensive educational and prototyping package designed for hands-on learning of electronics, embedded systems, and IoT applications. Centered around the Arduino Uno R3 platform, the kit includes a wide range of sensors, actuators, displays, and interface modules, enabling users to design, build, and test diverse real-world projects.

Core Controller & Accessories

- Arduino Uno R3 development board
- USB programming and power cable
- Solderless breadboard
- Breadboard jumper wires

Electronic Components

- LEDs: Red, Green, Yellow
- Resistors: 1 k Ω , 10 k Ω , 220 Ω
- 10 k Ω potentiometer
- Push-button switch
- Buzzer

Sensors & Input Devices

- LM35DZ temperature sensor
- DHT11 digital temperature & humidity sensor
- Light Dependent Resistor (LDR)
- Roll ball (tilt) switch
- Infrared (IR) receiving head
- Sound sensor module
- Water sensor

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



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- Joystick module

Display & Output Modules

- Seven-segment display
- Dot matrix display
- LCD 1602 alphanumeric display
- RGB three-color LED module

Control & Actuation Modules

- ULN2003 driver board
- 5 V stepper motor
- SG90 servo motor
- Relay module

Communication & Interface Modules

- IR remote control
- RFID module with RFID key ring and RFID card
- Real-time clock (RTC) module
- 16-button matrix keypad

Power & Connectivity Accessories

- 9 V battery connector

Educational Applications

- Arduino programming and embedded system fundamentals
- Sensor interfacing and data acquisition
- Motor control and automation projects
- Display interfacing and human-machine interaction
- IoT and smart system prototyping

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