

Arduino Pro Course

Level up with advanced sensors, displays, and automation

Level: Intermediate

Duration: 4 Months

Fee: LKR 25,000

Certificate: Included

About This Course

Build on Arduino fundamentals with advanced sensors, displays, motors, communication protocols, and real automation projects.

What You'll Learn

- Interface advanced sensors and displays
- Control motors precisely using PWM and drivers
- Implement communication protocols (I2C, SPI, UART, Bluetooth)
- Design and deploy automation systems

Practical Projects

- Bluetooth-Controlled Robot
- Automated Irrigation System
- Smart Security Alarm

Weekly Syllabus Overview

W1. Advanced Sensors

W2. Displays & UI

W3. Motors & Motion Control

W4. Communication Protocols

W5. Wireless Communication

W6. Home Automation Basics

W7. Data Logging

W8. Robotics Fundamentals

W9. Automation Projects I

W10. Automation Projects II

W11. Advanced Project Build

W12. Testing & Debugging

W13. Final Project Build

W14. Final Project Showcase

Requirements

- Completion of Arduino Beginner Course or equivalent experience
- Laptop with USB port