



Arduino is an open-source electronics platform based on easy-to-use hardware and software. It's intended for anyone making interactive projects.

## Topics to be covered in Workshop

What you'll learn

- Understand what an Arduino is and how it works
- Learn how to use an Arduino safely
- Program your Arduino using code that you've written in the Arduino IDE (Integrated Development Environment)
- Learn programming concepts using C and C++ along with Arduino specific programming
- Understand best practice concepts for programming and prototyping
- Use a wide variety of hardware and components and prototype your projects using a breadboard
- Build your own innovative project with Arduino

Programming fundamentals ( C language )

**Project 1:** Simple LED Program

**Project 2:** LED Blinking

**Project 3:** RGB Interfacing & Traffic Light Control

**Project 4:** IR Sensor, DC Motor Interfacing & Automated Door Opening System

**Project 5:** LCD Interfacing

**Project 6:** Interfacing Bluetooth Module

**Project 7:** Control Electronics Devices using Android Smartphone & Arduino

**Project 8:** Voice Controlled Home Automation System.

**Duration:** The duration of this workshop will be two consecutive days, with eight hour session each day in a total of sixteen hours properly divided into theory and hands on sessions.

**Eligibility:** Anyone interested, can join this workshop.

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