

# Introduction to Coding with Robotics

## About Course:

The course will introduce your kids to Coding with Robotics. They will learn real text based coding and make robots using Robotics Hardware with the help of our advance Robotic Kit Based on Arduino & Sensors.

**Duration:** 10 days (May vary according to students learning pattern)

**Session Type:** 1 ON 1 Session (1 Faculty and 1 Student Policy)

**Requirement:** Robotic Kit, Laptop, Headphone, Internet with stable connection

**Course Fees:** 5,999/- (Including Robotic Kit & Shipping Charges)

**Certification:** Yes

**Session Frequency:** Twice a Week

**Session Duration:** 1 Hour

## Course Content:

- 1) What is Robot & Robotics ?
- 2) Brain of Robot- Arduino
- 3) Introduction to Programming Language C
- 4) Software Download & Installation
- 5) Explanation of Software & 1<sup>st</sup> Program
- 6) Steps for making program
- 7) Explanation of Input and Output using human body example
- 8) Program for Output Devices
- 9) Explanation of Digital Devices
- 10) **LED Blinking Program**
- 11) **5 LED Module Program**
- 12) IR Sensor – Value Read on Serial Monitor
- 13) Introduction to if-else statement
- 14) **IR Sensor LED On- off**
- 15) **Public Counter using IR Sensor**
- 16) Explanation of Relay – Electromagnetic Switch
- 17) **Automatic hand Sanitizer Dispenser**
- 18) Understanding of PIR sensor – Value Read on Serial Monitor
- 19) **Motion Detected Home Security System**
- 20) **PIR sensor-Counter value print on Serial Monitor**

## FAQ

How Many Robots / Systems My kid will make?  
7 Different Robots or Automatic System

Will My Kid work on Robotic Kit?  
Yes

Will My Kid Apply Coding Skills to Hardware?  
Yes, we have designed course in that way only

Is there any Demo/ Trial Class Available?  
Yes, we provide 2 demo classes as we believe in 100% satisfaction Policy, if your kid is not able to understand the logic in 2 Demo classes than after receiving of Robotic Kit we will refund 100%

Will Student Require Robotic Kit?  
Yes

Who Will Provide Robotic Kit?  
Robotrix India

Is Robotic Kit Cost Extra?  
No, it's including in course fees

Who will pay shipping charges for Robotic Kit?  
Robotrix India

What Skills are required to do the Course?  
Basic computer knowledge required for this course