

# Wireless and Logic Based Robots

**Level 3 | 48 Hrs. | Age group : 8yrs. +**

**Description** This course is the application of Electronics and Circuit building where students learn to use Sensors, make Robots with sensors, make various Wireless projects using Radio frequency without using any microcontroller. The course requires very good level of electronic skills as every thing works on electronic logic in this level.

## Skills you will Develop

- ▼ Creativity & Innovation
- ▼ Problem Solving
- ▼ Team Work
- ▼ Conceptual Skills
- ▼ Perseverance
- ▼ Logical Thinking

## What will you Learn ?

- ▼ Concepts of Sensors
- ▼ Make Robots without Programming
- ▼ Understanding of Radio Frequency (RF)
- ▼ How to make wireless Projects
- ▼ Application of Electronics to build Logic based Robots
- ▼ Working of Encoder and Decoder
- ▼ Various Sensor based robots
- ▼ Blink LEDs Wirelessly
- ▼ IR Module
- ▼ Build wireless RF based robot
- ▼ Motion detecting bot using IR
- ▼ Black line follower robot
- ▼ Obstacle Avider Robot
- ▼ IR Controlled Obstacle Avider Robot
- ▼ Knowledge of HT 12D and HT12E IC
- ▼ Learn to make a Transmitter & Receiver

