

Objective

Built Bots Capable of Reducing Human effort.

Group Size

**Typically
6 Students**

Course Duration

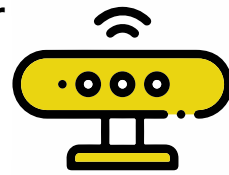
**8-10
Months**

T&C* The course timeline depends on each child's learning phase, with the same curriculum for all.

Curriculum

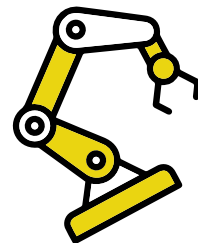
Sensors & Displays

1. Temperature Sensor
2. IR Sensor
3. LDR Value Display on LCD / Serial Monitor
4. 7-Segment Display (basic)
5. LCD Display
6. Tilt Ball Switch



Modules & Communication

1. Analog Joystick
2. Eight LEDs using 74HC595
3. Relay Module
4. Bluetooth Module
5. Line-Tracking Sensor
6. IR Receiver Module (Serial readings)



Projects

1. 7-Segment Countdown (9→0) with LED & LCD Status
2. L298N Motor Driver
3. Line-Tracking Car
4. Ultrasonic Obstacle-Avoidance Car
5. IR Remote-Controlled Car
6. Bluetooth Multifunctional Robot Car

