Do It Yourself Academy

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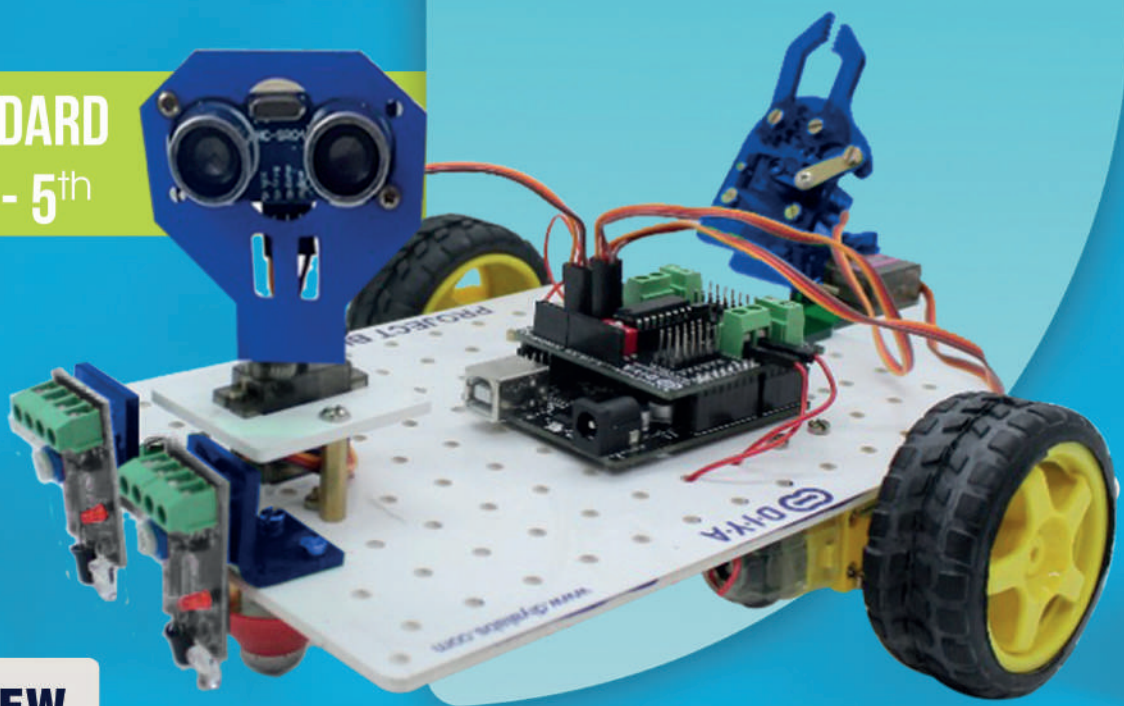
Learn | Achieve | Become

BLOSSOMING ROBOTEER

STANDARD
3rd - 5th



Internationally Certified

COURSE OVERVIEW

Robots are becoming a part of our daily life from the simple floor cleaning robots to making our same day deliveries possible through the automated warehouses. There are multiple applications of wheeled and automated robots ranging from patient support to defense, making things safe, simple and ensuring speed. In this course students will build practical applications of robots helping us in various walks of life and building futuristic industries

APPLICATIONS OF BLOSSOMING ROBOTEER

- Smart Vehicles
- Cleaning Robot
- AGU(Automated Guided Vehicle)
- Watch Dog
- Bomb Squad
- Food Serving Robot

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Building Navigational Control Algorithms

WHAT YOUR CHILD LEARNS

1. Exploring the fundamentals of electronics and controlling a LED
2. Touring the IDE and programming the microcontroller
3. Getting familiarized with coding fundamentals and serial communication
4. Controlling output devices by reading inputs from the sensors
5. Implementing the PWM technique for motor speed control
6. Understanding the application of robotics and implementation plan
7. Assembling and verifying the mechanical structure of the robot
8. Mounting the electronics and control circuitry on the robot
9. Crafting obstacle avoidance algorithms in navigation applications
10. Devising a line follower robot used in logistics and hospitality
11. Deploying a wall following robot for security application in critical areas
12. Project ideation, practice and preparation
13. Project live demonstration

LMS

13 Mentor-Led Sessions
13 Self-Paced Sessions

Hands-on Learning
1 Hour / Session