

Arduino Robotics

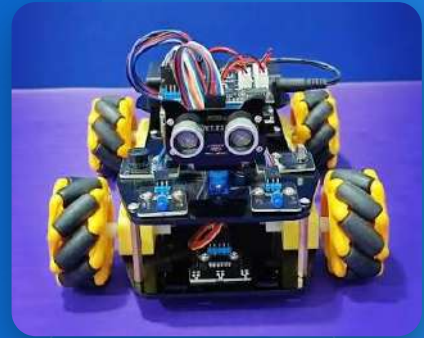
Smart Robotics & Autonomous Cars

Intermediate Level

Ages 11+

Arduino Robotics

Explore the Arduino Robotic Car Programme and discover robotics, electronics and AI through hands-on engineering.



11+

AGE GROUP

24

SESSIONS

60 min

PER SESSION

3

MONTHS

3

PATHWAYS

Arduino Car Kit
+ COMPONENTS

Capstone

+ PARENT
SHOWCASE

Programme Overview

Discover the exciting world of robotics, electronics and AI through hands-on engineering with Arduino.

Skills Students Gain

Robotics Engineering

Arduino Programming

Sensor Integration

Autonomous Robotics

Problem Solving

Collaboration

3-Month Learning Pathway

Students build, program and control their own 4WD Robot Car while learning real Arduino coding, sensors, automation and wireless technologies.

- 1 Electronics Foundations & Robot Movement**
Assembling the 4WD Smart Robot Car, learning Arduino IDE & C++, and controlling motors and movement.
- 2 Sensors, Automation & Smart Behaviour**
Ultrasonic & IR sensors, obstacle avoidance, line-following and autonomous navigation.
- 3 AI Features, Wireless Control & Showcase**
Bluetooth control, servo radar scanning, smart parking and a final Robot Car showcase.

Programme Details

Level
Intermediate

Duration
3 Months

Schedule
24 sessions · 60 min each

Location
Sport Society, Mirdif

Kit
Arduino car kit + components

Includes
Capstone project + parent showcase

Build Real Projects · Learn by Doing · Think Like an Engineer

Build. Wire. Program. Succeed.

Enroll Now

+971 50 754 2891 / +971 4 229 6887
Academy@ascendesport.com · ascendedu.online