

ROBOTIC CAR COURSE

INTERMEDIATE LEVEL



AGES 10-15

ARDUINO ROBOTICS

Explore the **Arduino Robotic Car Program** and discover Robotics, Electronics, and AI through hands-on engineering. Students build, program, and control their own **4WD Robot Car**.

**BUILD.
WIRE.
PROGRAM.
SUCCEED.**

10-15

AGE GROUP

24

SESSIONS

60

MINS / SESSION

3

MONTHS
DURATION

3

LEARNING
PATHWAYS

KIT

ARDUINO CAR KIT

✓

CAPSTONE
PROJECT

PROGRAM OVERVIEW

Discover the exciting world of **Robotics, Electronics, and AI** through hands-on engineering with Arduino.

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

3 MONTHS LEARNING PATHWAYS

- 1 Electronics Foundations & Robot Movement**
Assemble the 4WD Smart Robot Car, learn Arduino IDE & C++, and control motors and movement.
- 2 Sensors, Automation & Smart Behavior**
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.

SKILLS STUDENTS GAIN

- ✓ **Robotics Engineering**
- ✓ **Arduino Programming**
- ✓ **Sensor Integration**
- ✓ **Autonomous Robotics**
- ✓ **Problem Solving**
- ✓ **Collaboration**

PROGRAMME DETAILS

Level: **Intermediate**

Duration: **3 Months**

Schedule: **24 Sessions • 60 min each**

Location: **Sport Society, Mirdiff**

Kit: **Arduino Car Kit + components**

Includes: **Capstone Project + Parent Showcase**

START NOW

ENROLL NOW FOR ROBOTICS & AI

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BUILD REAL PROJECTS

LEARN BY DOING

THINK LIKE AN
ENGINEER

**BUILD TODAY.
INNOVATE TOMORROW.**