

MICRO:BIT ROBOTICS COURSE

INTERMEDIATE LEVEL

AGES 8-12

MICRO:BIT SENSORS

Explore the **Micro:Bit Sensor Program** and build on Beginner skills using the Micro:Bit Sensor Kit, a modular board for wiring real components. Students wire, program, and combine sensors into their own **working smart devices**.



8-12

AGE GROUP

24

SESSIONS

60

MINS / SESSION

3

MONTHS
DURATION

3

LEARNING
PATHWAYS

KIT

MICRO:BIT KIT

✓

CAPSTONE
PROJECTS

PROGRAM OVERVIEW

Discover the exciting world of **Sensors and Digital Creativity** through hands-on wiring with the micro:bit.

Students wire external sensors, lights, and buzzers to their micro:bit while learning real sensor logic, automation, and device design.

3 MONTHS LEARNING PATHWAYS

- 1 Meet the Modules**
Introduce all micro:bit's Sensor Kit modules one at a time, so every block is understood before combining into projects.
- 2 Combining Modules Into Devices**
Pair two modules on the expansion board to build the first working two-part devices.
- 3 Applied Builds & Capstones**
Move into multi-session capstone builds combining several modules into a complete, demo-ready device.

SKILLS STUDENTS GAIN

- ✓ Digital Creativity
- ✓ Computational Thinking
- ✓ Sensor Wiring
- ✓ Problem Solving
- ✓ Collaboration
- ✓ MakeCode Fundamentals

PROGRAMME DETAILS

Level: **Intermediate**
Duration: **3 Months**
Schedule: **24 Sessions · 60 min each**
Location: **Sport Society, Mirdiff**
Kit: **micro:bit + expansion board + sensors**
Includes: **Capstone Project + Assessments**

START NOW

ENROLL NOW FOR MICRO:BIT
SENSORS

+971 50 754 2891 / +971 4 229 6887
Academy@ascendesport.com
www.ascendesport.com