



ROBOSPARK JUNIOR

APPLIED ROBOTICS · AGES 8–12



8–12 YEARS

FUTURE ENGINEERS TRACK

BUILD. PLAY.
CREATE!

Ascend's flagship introductory robotics course for young Champs. Through four playful, project-based modules, kids move from building their first AI-powered robot to coding sensors, loops, and conditions then design a robot of their own for a live Showcase Day.

8–12

AGE GROUP

12

MONTHS
DURATION

2

SESSIONS
PER WEEK

60

MINS /
SESSION

4

MODULES

EN/AR

BILINGUAL

✓

CERTIFICATE

PROGRAM OVERVIEW

Ascend's flagship introductory robotics course — Champs explore robot parts, build moving robots of growing complexity, and use block-based coding to bring their creations to life.

FIRST AI ROBOT CAN:

- ✓ Combine motors, sensors & AI
- ✓ Respond to light, sound & touch
- ✓ Navigate using object detection
- ✓ Reflect the Champ's own design
- ✓ Be presented at a live Showcase Day

TWELVE-MONTH ROADMAP

- 1 Robot Building Basics**
Months 1–3 — Circuits, microcontrollers, sensors & AI basics; build a Robotic AI Bin.
- 2 Talk to Plant**
Months 3–6 — Block coding and 3D design; build an AI-Powered Plant that responds to messages.
- 3 Intelligent Robotic Car**
Months 6–9 — Sensors, battery power & AI object detection; build an AI Vision Robot Car.
- 4 Build Your First AI Robot**
Months 9–12 — A personally designed robot for Showcase Day: My First AI-Powered Robot.

SKILLS STUDENTS GAIN

- ✓ Robot Parts & Functions
- ✓ Block-Based Coding
- ✓ Loops, Conditions & Variables
- ✓ Light, Sound & Touch Sensors
- ✓ Basic AI Concepts
- ✓ 3D Design & Printing
- ✓ Robot Assembly
- ✓ Teamwork & Collaboration
- ✓ Problem-Solving
- ✓ Presentation Skills

PROGRAMME DETAILS

Level: Beginner (Ages 8–12)

Duration: 12 Months · 4 Modules

Schedule: 2 Sessions/Week · 60 min · Teacher-Led

Format: Small-Group · Bilingual (EN/AR)

Includes: Lifetime Material Access + Certificate

Assessment: Phase Demos + Build Logs + Final Showcase

START NOW

ENROLL IN ROBOSPARK JUNIOR

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

BUILD REAL PROJECTS · LEARN BY DOING · THINK LIKE AN ENGINEER

BUILD TODAY. INNOVATE
TOMORROW.