

Applied Robotics · Flagship Track

Junior Robotics & AI Explorer

Applied Robotics · Ages 6+

Ages 6+

Future Engineers Track

Ascend's flagship introductory robotics course for young Champs, moving from building a first AI-powered robot to coding sensors, loops and conditions.



6+

AGE GROUP

12

MONTHS

2 / week

SESSIONS

60 min

PER SESSION

4

MODULES

EN/AR

BILINGUAL

Certificate

ON COMPLETION

Programme Overview

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

Through four playful, project-based modules, Champs explore robot parts, build moving robots of growing complexity, and design a robot of their own for a live Showcase Day.

- 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 6+)

Format
Small-Group · Bilingual (EN/AR)

Duration
12 Months · 4 Modules

Includes
Lifetime material access + certificate

Schedule
2 sessions/week · 60 min · Teacher-led

Assessment
Phase demos + build logs + final showcase

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

Build. Play. Create!

Enroll Now

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