UBJECH EDUCATION



UGOT Education Solution

Provides every student with learning opportunities to explore Artificial Intelligence and Robotics in depth



UBJECH EDUCATION

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Comprehensive UGOT **Education Solution**



Multi-mimetic Robots

- · Versatile Builds
- · High-Performance Computing
- · Open Source System



Curriculum System

- Regular Courses
- · Club Courses
- · Competition Courses



Comprehensive Services

- · Consultation Service
- Training Services
- · Teaching Support
- · Academic Research Support



Multi-mimetic Robots

Versatile Builds | High-Performance Computing | Open Source System

Embodying the characteristics of true AI and robotics



Fast Assembly for 7 Unique Robots

Modular Design \ Innovative Dial Lock \
Two-minute Reconfiguration \ Imagination Inspired



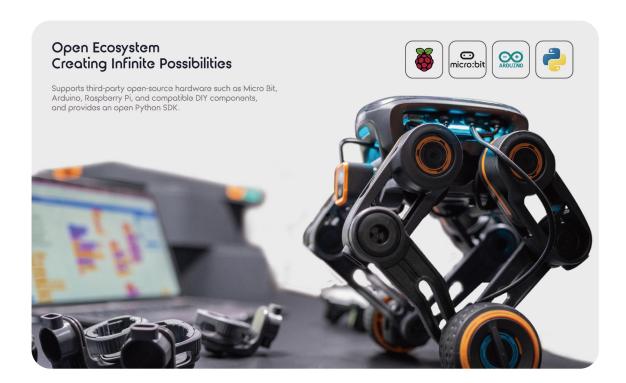
High-performance Computing Pushes the Boundaries of AI Education

4-core CPU with dedicated NPU and GPU, 10 trillion computations per second.

- Multi-algorithm Parallel Processing
 Advanced Algorithm Models
 Offline Model Training

- · Diverse Teaching Scenarios





Extensive Collection of AI Algorithms and AI Applications

Intelligent speech, machine vision, motion control empower Al-enabled education.



VAD	ASR
TTS	NLP
360°Far-Field Speech Recognition	





QR Code Recognition	Facial Recognition	OCR
License Plate	Facial Feature	Gesture
Recognition	Recognition	Recognition
Color	Posture	Custom
Recognition	Recognition	Model Training

Motion Control

7-

Self-balancing Car Algorithm Odometry Algorithm Robotic Arm Motion Algorithm Quadruped Locomotion Control Algorithm

eeled-leg Locomotion
Control Algorithm

Long Battery Life Sufficient for AI Study

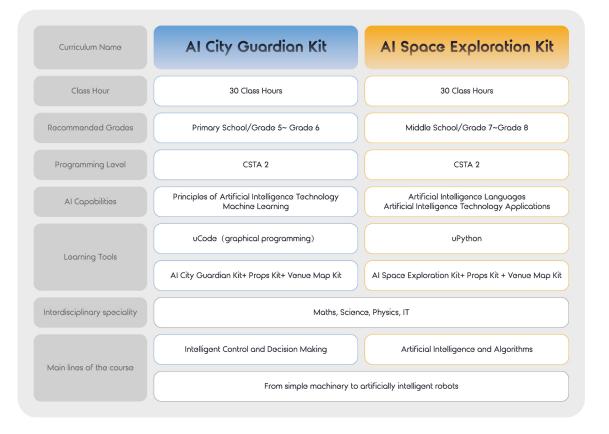
2600mAh battery capacity supports 2 hours of Al instruction.



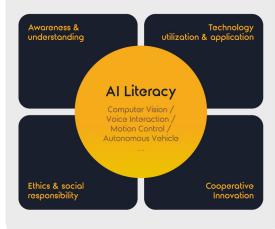


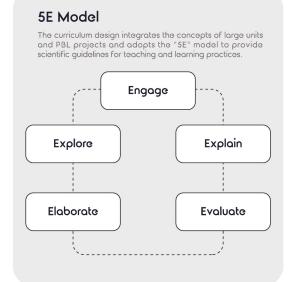
Curriculum System

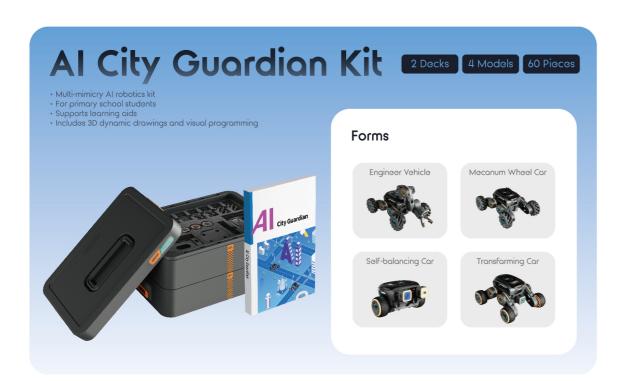
The Curriculum is designed to focus on international guideline standards such as CSTA, AI4K12 and also the UBTECH Artificial Intelligence Knowledge Mapping.

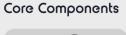


UBTECH Artificial Intelligence Knowledge Mapping

























Props Kit

- EVA terrain module, cubes, balls, cards, etc.
- · Tasks include crossing obstacles, handling objects, image recognition, face recognition, pose recognition, colour recognition, etc.



























Map Kit Learning propsUsed for the task of



City Guardian

Recommended for Primary School/Grade5-6



15 topics 30 class hours

Curriculum Description

story situations, guides the students to use AI technologies such as intelligent voice and machine vision to realize the various functions of UGOT to help the city to solve a variety of emergency problems and to cultivate students' problem-solving ability and social

AI Skills and Competency Literacy



Human-Computer

Interaction









Consciousness



Computational



Digital Learning and Innovation

Programming Tool - uCode



Curriculum Content

Session 1

Ruin Rescue (8 Class Hours)

In this session, students will understand the mechanism, function, and characteristics of the transformation vehicle, learn sound source localisation, speech recognition, speech synthesis, multi-computer communication, and other knowledge to achieve the application of UGOT in city rescue scenarios.

Session 3

Ecological Protection (6 Class Hours)

In this session, students will learn to narrow the search range through colour recognition and tracking, locate hazardous chemicals through image recognition, and finally control car body posture through a gyroscope to safely recycle hazardous

Session 2

Searching for People in A Crowd (8 Class Hours)

Upon completion of the learning of this session, students will learn motion control, face recognition, number plate tracking, and patrol algorithms of the Mecanum-wheel vehicle form of UGOT and, through programming, implement the application of quickly searching for and rescuing lost people.

Session 4

Mission Accomplished (6 Class Hours)

Upon completion of the learning of this unit, students will acquire knowledge of recognising AprilTag codes, traffic signs, and traffic officers' gestures using UGOT. They will also develop skills in using robotic arms to grasp objects accurately, allowing them to complete handling tasks quickly.

Activity Session

Community Rescue (2 Class Hours)

In this session, students are tasked with unleashing their imagination and crafting new crisis scenarios for the city while utilising appropriate UGOT forms and artificial intelligence technology to solve these crises.



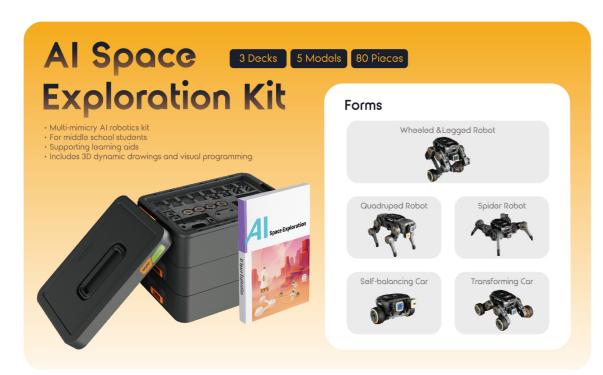




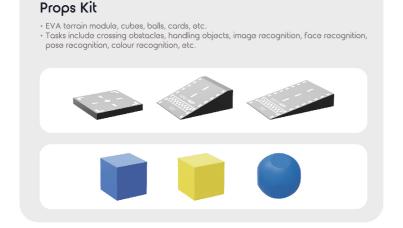














Space Exploration

Recommended for Middle School/Grade7-8



30 class hours

Curriculum Description

With interstellar exploration as the background, the course integrates science and technology into science fiction story contexts, constructing virtual scenarios such as flight plans, lunar exploration, cave exploration, and Mars base. Through these topics, the course guides students to use intelligent speech, machine vision and other artificial intelligence technologies to realize the functions of UGOT and help scientists to solve

AI Skills and Competency Literacy



Human-Computer

Interaction

Learning











21st Century

Digital Learning and Innovation

Programming Tool - uPython

ming, opens up new possibilities for our programming teaching to implement AI recognition, motion control, and other such



Curriculum Content

Session 1

Flying Plan (6 Class Hours)

In this session, students will learn the fundamental operating methods of UGOT and basic Python programming knowledge. They will use Python programming to carry out basic operations and pre-launch status checks for UGOT

Session 3

Cave Mystery (6 Class Hours)

In this unit, students will understand the structure, function, characteristics, and control methods of quadruped spiders, learn the basic knowledge of image acquisition and image recogni-tion, implement the corresponding functions through program-ming, and complete the exploration task.

Session 2

Lunar Exploration (6 Class Hours)

In this module, students will understand the structure, function, characteristics, and control methods of lunar rovers and wheeled robots, experiment with Python coding to implement the corresponding functions, and complete the exploration task.

Session 4

Mars Base (8 Class Hours)

In this unit, students will understand the structure, functions, characteristics, and control methods of quadruped robots and learn the application of artificial intelligence knowledge such as face recognition, speech recognition, and object tracking.

Activity Session

Smooth Return (4 Class Hours)

In the activity session, students will synthesise the knowledge and skills they learned this year to solve problems.

Comprehensive Services

RaaS Robot as a Service



Founded in 2012, UBTECH Technology is a leading global enterprise in AI and humanoid robots.

UBTECH Artificial Intelligence Education solution is based on the company's self-developed full-stack technology for humanoid robots. With the technical advantages of AI and robots, UBTECH has continuously empowered AI education to provide quality courses and comprehensive AI education ecosystems.

Innovation Talents Training











Service System

Training Consultation Service Teaching Academic Research Support Support Guidance Achievement service Exhibition Service Assessment Service Professional & Certification Construction Job Skills

Products and Content System



Software System

Content System

































Platform Support

Technology Platform

Al Education Platform

Ecological Resources

Society / Association Experts and Scholars

Research Institutions Enterprise Partnership

