

Shapes the Future:

# ROBOTICS Competition

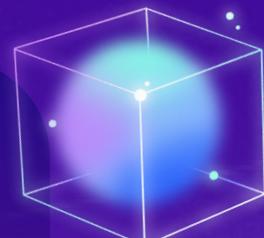
GRADES 5-8



## TOPICS

### Future -Ready City Solutions

Smart city can developed by using Arduino sensors (for traffic, pollution, streetlights) or use PictoBlox AI to simulate traffic control and pollution monitoring.



### Intelligent Healthcare Systems

Healthcare monitoring can be achieved with Arduino health sensors (heartbeat, SPO2, temperature) or PictoBlox AI models to predict risks and send alerts.



### AI Smart Filters for Safer Online Identity

Digital security can be enhanced with Arduino biometrics (fingerprint, RFID) or PictoBlox AI filters (face or voice recognition) to prevent misuse of online identity.



## **UAE Information AI Chatbot**

Create an AI chatbot using PictoBlox AI that provides real-time information about UAE's tourist spots, transport, events, culture, and emergency services.

## **AI Hospital Helper Agent**

1. Create an AI Agent to assist in hospitals by guiding patients, providing medicine reminders, and answering basic health queries.
2. Develop an AI agent using Arduino (motion sensors, cameras) or PictoBlox AI that can detect intruders, recognize faces, and send alerts to ensure safety in homes, offices, or public spaces.

**Submission Date:20.09.2025**

## **Rules & Regulations**

1. Each team can have a maximum of 2 students.
2. Projects can be submitted in either hardware or software format.

**Choose your challenge and start building the future!**

**STUDENTS MAY APPROACH THE ROBOTICS TEACHER  
FOR ANY QUERIES.**