

## **HKIE END STEM Electronics Bootcamp 2023**

### **1-day STEM robotics workshop**

**Co-organised by HKIE Electronics Division and HK Science and Technology Park (HKSTP)**

#### **Goal**

- The goal of this event is to promote electronics engineering among secondary schools and wider adoption of STEM in education. The event would provide on hands experience for secondary school students to create robots and programming.

#### **Methodology**

- 20 Shortlisted teams from secondary school would be provided a robot kit for workshop and competition on the Event Day. Workshop would be provided to participants on how to make use of the robot kit in the morning. Tasks and rules of the competition would be announced in the afternoon and participants would make use of the robot kit to complete the tasks within a limited time as far as practicable. Participant who has the shortest time for completion would win the competition.

#### **Event details:**

Date/Time: 12 August 2023, 0930 to 17:00  
Venue: Science Park 19W Meeting Room  
Target Participants: 20 teams from Secondary Schools (shortlisted by lucky draw), 3-4 students (Form 3-5) per team

#### **Event Day (tentative schedule):**

09:30 a.m. – 09:50a.m.	Opening speech and Welcome session
09:50 a.m. – 12:30p.m.	Workshop and training on the robot kits
12:30p.m. – 02:00p.m.	Lunch
2:00p.m. – 4:30p.m.	Competition
4:30p.m. – 5:00p.m.	Award Ceremony and Closing

#### Deliverable

- The tutorial materials of the robot kit would be provided by the organiser to allow participants to have on hands experience in robotics and programming.
- The tasks and game rules for the competition of the event would allow the participants making use of the STEM robotics kits to compete during the event day. The game rules would be clear-cut on the winning criteria with minimal subjective decision.
- Twenty (20) sets of STEM robotics kits would be provided to the shortlisted teams from secondary schools with the elements of fundamental electronics engineering and programming.
- Workshop would be provided to participants for the tutorial of the STEM robotics kits. The workshop would include the necessary training materials for participants to get familiar with the kits.
- Competition among participants by using the STEM robotics kits.

#### Prize and Certificate

- Award and Cash gift coupons would be given to the Champion, 1st runner up and 2nd runner up team.
- All Participants who completed the all sessions of the event would be given the Certificate accredited by HKIE Electronics Division