



Jumping Sumo Steeplechase (TECP1132)

Introduction

Learn Coding and Robotics using iPad and wireless communication. Students can learn advanced computing concepts and utilities in an exciting and joyful way with technology leaders. Off-the-shelf toy robots Jumping Sumo are used throughout the course. With its agile movement capability and superb computer vision, the Jumping Sumo is with limitless possibilities when utilised in performing various tasks.

Students will learn advanced computer concepts such as robot motion control, computer vision and algorithms in a natural and task-oriented way without having to master complicated theories. Coding and Robotics are important ingredients of STEM education in advanced countries. Mastering such knowledge would mean mastering the future.

Programme Type / Level

Introductory Course in Computer Controlled Robots ([Token-required](#))

Instructor(s)

Mr. LAU Kam Ming of Smart Kiddo Education Limited

Pre-requisite

No special prerequisites are needed

Target Participants



- P4 – P6 HKAGE student members
- Class size: 30

Medium of Instruction



English with English handouts

Certificate



E-Certificate will be awarded to participants who have:

- ❖ Attended **at least 3 sessions; AND**
- ❖ Completed all the assignments with **satisfactory performance**

Intended Learning Outcomes



Upon completion of the programme, participants should be able to:

1. Introduce advanced computer concepts in robotics and programming such as robot motion control, computer vision and AI;
2. Design computer controlled robots with at least one type of robot (e.g. Dash and Dot, Jumping Sumo, Arduino, Lego NXT or other appropriate robot);
3. Enhance students' creativity through developing computer controlled robots.

Screening



Please answer the screening question in the online application form.

*The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the basic knowledge of Computing in the screening question can be enrolled in the programme.

Application Deadline

11 Feb 2019

Application Result Release Date

22 Feb 2019

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

Schedule



Session	Date	Time	Venue (HKAGE)
1	23 Apr	9:00 a.m. – 12:00 noon 2:00 p.m. – 5:00 p.m.	Room 105
2			
3	24 Apr		
4			

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".

SCIENCES

科學