




Programming and Creating with Dash & Dot Robots (TECP1132)

Introduction This course is an introduction to robotics for students to understand different kinds of robots, how they work and how they are helping humans in different areas in our life. It is designed to build up learners' programming concepts and skills, as well as their creativity, logical thinking, critical thinking, problem solving, communication and collaboration skills. Students will learn to programme robots Dash and Dot to complete different tasks and then design their own robotics challenges.

Programme Type / Level Introductory Course in Computer Controlled Robots ([Token-required](#))


Instructor(s) Ms. Hui Chung Yan

Pre-requisite No special prerequisites are needed


Target Participants 

- P4 to P6 HKAGE student members only in 2019-20 school year
- 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. have their creativity enhanced through developing computer controlled robots.

Application Procedure  **This programme is Programmes with No Screening**
There are no screening questions, written test or other screening methods for this type of programmes.

- Student members can select up to 5 programmes from a list of selection. Applicants have to state the priority when submitting the application. (1st priority, 2nd priority, 3rd priority, etc). 1 token is required for each programme (For programme list, please refer to the issue 17 of Gifted Gateway ([click here](#)));
- Application can only be submitted once. Once it is submitted, the priority and the programme selection cannot be changed;
- If a student member removes a programme from the application before the application deadline by withdrawal, the choice priority will remain unchanged. (For example: A student has selected three programmes and removed the programme with the 1st priority from the application. The choices of 2nd and 3rd priority will remain unchanged with no promotion in priority.);
- We will select the students based on the student's choice of priorities and a randomly generated selection by the computer system. If there is time clash between the applied programme and other programmes with offer, HKAGE will consider if the application will be accepted;
- Priority will be given to student members who have not completed the applied programmes;
- Student members should avoid applying programmes with time clash;
- The decision of HKAGE on the result of selection should be final.

Application Deadline **29 Jan 2020, 12:00 n.n.**

Application Result
Release Date

7 Feb 2020

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

Schedule



Session	Date	Time	Venue (HKAGE)
1	14 Apr	9:00 a.m. – 12:00 n.n. & 2:00 p.m. – 5:00 p.m.	Room-105 Room-G01 Zoom Meeting
2	4 Aug		
3	15 Apr		
4	5 Aug		

Enquiries



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

SCIENCES

科學