



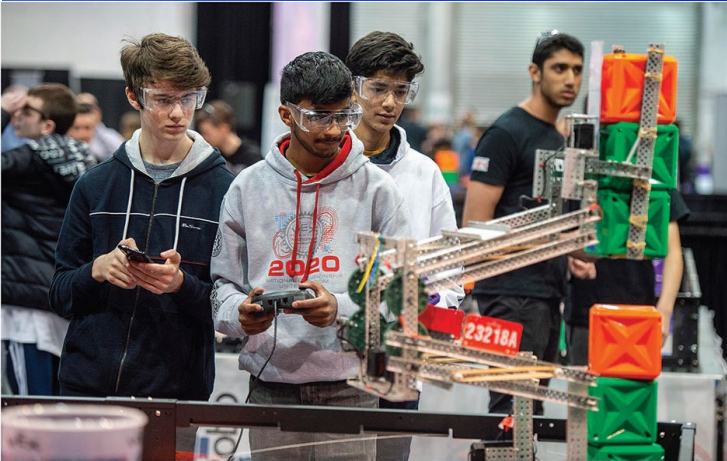
S3ROB002C

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Robotics Course (Level III)

VEX Robotics Summer Camp

VEX Robotics



Application Deadline

**5 May 2022 12:00
noon**

Result Release

16 May 2022

Intended Learning Outcomes

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

1. Enhance students' understanding of VEX robotics
2. Provide training to students and become a qualified trainers after finishing the courses
3. Build up the VEX robotics skills and understand the rules of competitions
4. Form a group of talents students to participate in competitions



◆ Introduction

The course allows students to understand the structure of VEX V5 robotics, learn different scientific theories, mechanical structures, to programming theories, and build their own VEX robots. Through different course objectives, students can learn more STEAM knowledge. After completing the course and examination, they can receive a VEX certificate, and they can participate in the competition hosted by the REC Foundation to move forward on the road of robotics development.

◆ Schedule

Session	Details	Date	Time	Venue
1 - 2	VRC Introduction New season game rules, Judge awards, Online Challenges, electronics introduction, Clawbot building VEX V5 robot design and mechanisms Chassis, Lift systems, Manipulators, Assemblies etc. VEX V5 Brain and Controller operation, Firmware update	22 Aug - 23 Aug	9:00 a.m. - 5:30 p.m.	22 Aug (Room 203 & Room 403) 23 Aug (Room 403)
3 - 4	Robot Building & Programming Distance Sensor and Potentiometer Programming, Lifting Systems, Optical Sensor Programming · Bumper Switch Programming	24 Aug - 25 Aug	9:00 a.m. - 5:30 p.m.	24-25 Aug (Room 403)
5 - 6	Robot Testing & Certification Exam Vision Sensor, GPS Sensor & Competition related Programming, Broadcast, Wait until, Repeat until, Variables, List, MyBlocks etc; Certification Exam	26 Aug - 27 Aug	9:00 a.m. - 5:30 p.m.	26 Aug (Room 403) 27 Aug (Room 105)

◆ Target Participants

- S1 to S3 HKAGE student members only in 2021/22 school year
- Class size: 20

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

English with English Handouts

◆ Screening

Please answer the screening question in the online application form.

*The screening question is designed to help the applicant understand 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 knowledge of robotics in the screening question can be enrolled in the programme.

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended all the sessions; and
- completed and passed the exam with satisfactory performance