



Mini Robocon 2021

Phase III Training (TECS2373)

Introduction Building and programming robots for Mini Robocon 2021 by using Makeblock Ultimate 2, covering robot-base construction, mechanical design choices, ball launcher design, wireless remote controller design and basics of automation. Students are also required to read rulebook and understand the mission requirements. Students will be able to have hands-on experience on designing, building robots through design iterations and programming the robots to communicate with a wireless controller.

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

Instructor(s) Mr Johnny Wan
(Binary Creation Limited)

Pre-requisite Students who have completed Mini Robocon 2020 Phase II Training (TECS2372).

Target Participants

- S1 to S4 HKAGE student members
- Class size: 10

Medium of Instruction Cantonese with English handouts

Certificate **E-Certificate** will be awarded to participants who have:

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

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

1. design and make their robot products for joining the mini robocon competition;
2. write programmes to instruct the robots to communicate with a wireless controller;
3. modify their robots to attend the Mini Robocon competition 2021;
4. develop their collaboration skills and communication skills via conducting the group design projects.

Schedule	Session	Date	Time	Venue
	1	27 Feb 7 Apr	9:00 a.m. – 12:00 n.n.	Meeting Room 04, 1/F, Core Building One, Hong Kong Science Park
	2	20 Mar 7 Apr	9:00 a.m. – 12:00 n.n. 1:00 p.m. – 4:00 p.m.	
	3	20 Mar 8 May	4:00 p.m. – 4:00 p.m. 9:00 a.m. – 12:00 n.n.	
	4	10 Apr 5 Jun	9:00 a.m. – 12:00 n.n.	
	Competition (E2ROB002K)	25 Apr 18 Jul	10:00 a.m. – 6:00 p.m.	
				Grand Hall, Building 12W, Phase 3, Exhibition Hall, Hong Kong Science Park

Enquiries

For enquiries, please contact Academic Programme Development Division on 3940 0101 after language selection, press "1".