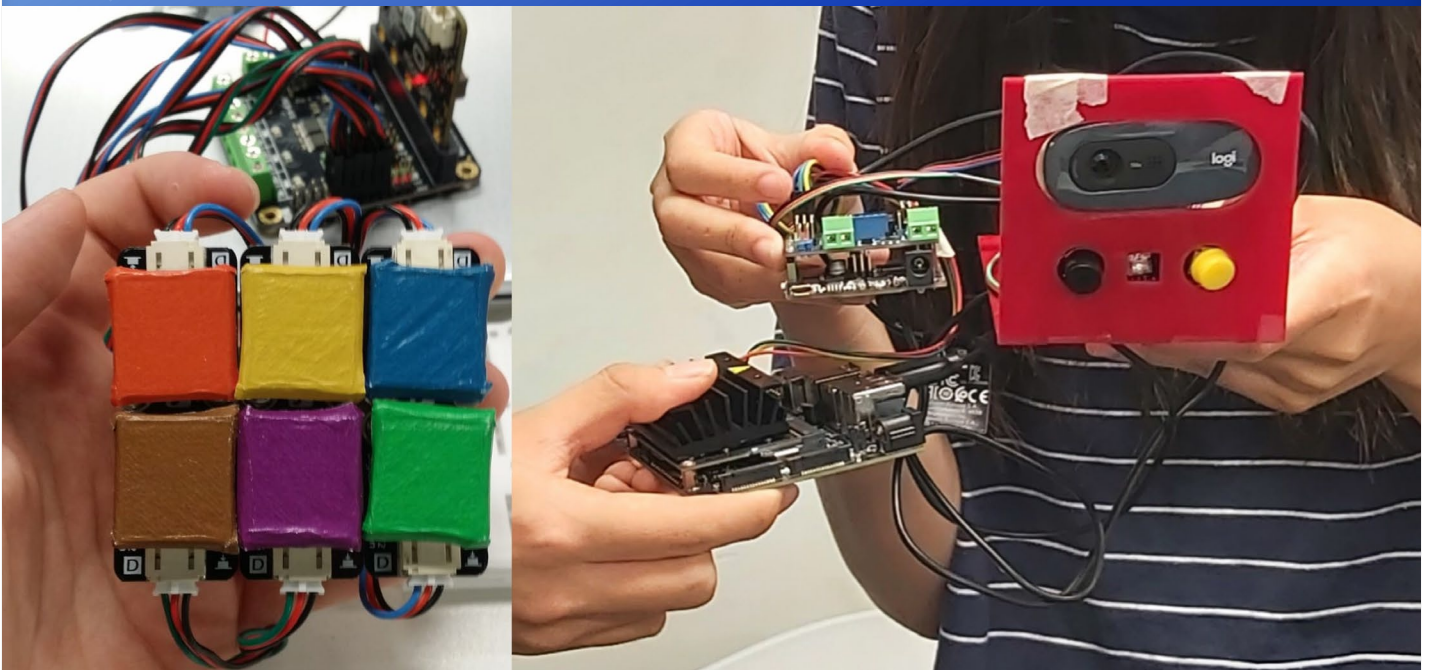




## Innovation Course (Level II): Artificial Intelligence and Internet of Things Application – Making Innovative Smart Living Products (Phase II)

Mr Chris LEUNG (Decatron Innovation Limited)



### **Intended Learning Outcomes**

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

1. apply knowledge of AI and IoT (including sensors, circuit design, programming and real-time database skills) to design smart living products;
2. incorporate design thinking process in making the products;
3. develop collaboration skills via group design project.



## ◆ Introduction

This programme series is designed to enhance students' knowledge and interest in Artificial Intelligence (AI) and Internet of Things (IoT) through applying design thinking process to make smart living products. Students will engage in hands-on design challenges that focus on developing empathy, encouraging ideation, developing metacognitive awareness, and fostering creative problem-solving. Throughout the programme, students will acquire skills including computer-aided design (CAD) drawing, making a prototype by using 3D printer, laser cutter, electronic circuit, and computer programming. The group design mini project is targeted to inspire students in creativity, collaboration, and design talent.

## ◆ Schedule

Session	Date	Time	Venue
1	14 Jan	9:30 a.m. – 12:30 p.m.	Decatron Innovation Limited
2	21 Jan		
3	28 Jan		
4	4 Feb		
5	11 Feb		
6	18 Feb		

Address: Decatron Innovation Limited, Unit 03, 19/F, Yen Sheng Centre, 64 Hoi Yuen Road, Kwun Tong, Kowloon. ([MAP](#))

## ◆ Target Participants

- S1 to S3 HKAGE student members only in 2022/23 school year
- Class size: 25

Students who have satisfactorily completed “Innovation Course (Level II): Artificial Intelligence and Internet of Things Application – Making Innovative Smart Living Products (Phase I) (E2IN0001C, E2IN0001C-2)”

## ◆ Pre-requisite

No special prerequisites are needed

## ◆ Medium of Instruction

Cantonese with English Handouts

## ◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 5 sessions; and
- completed all the assignments with satisfactory performance.