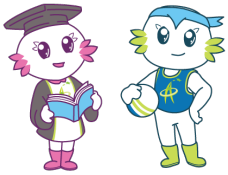
香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education
香港特別行政區政府教育局資助
Subvented by the Education Bureau, the Government of the HKSAR



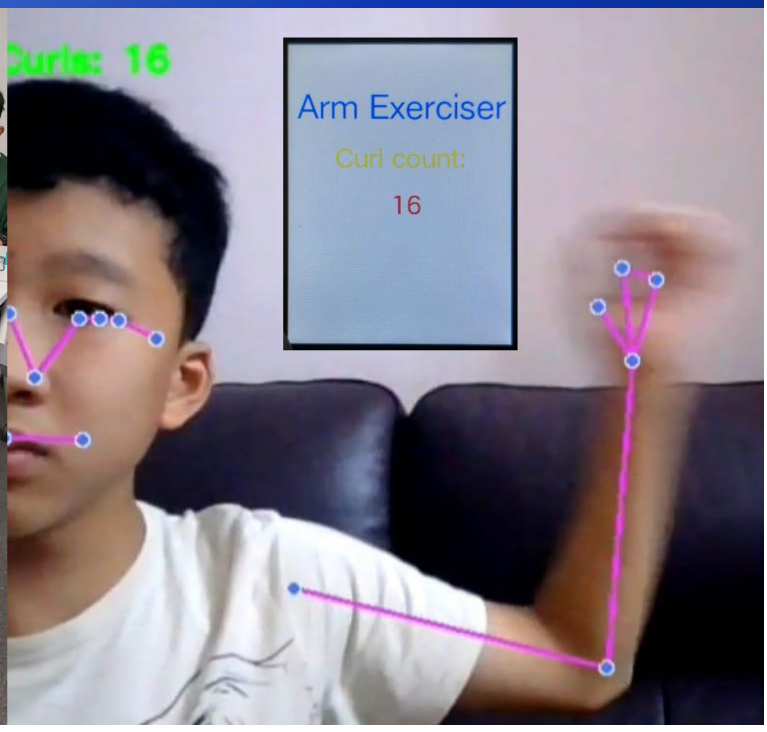
Learn about Gigi & Yoyo

[**Gifted Programme**]

E3IN0005C
(Token- required)

Innovation Course (Level III): Applying Artificial Intelligence to Make Smart Living Products (Phase II)

Mr Chris LEUNG (Decatron Innovation Limited)



Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

1. identify and prioritise end users' needs through research and mind mapping;
2. apply knowledge of AI and IoT to design smart living products;
3. develop collaboration skills via group design project.

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

Gifted Programme Introduction

This programme series integrates Artificial Intelligence (AI) and Internet of Things (IoT) concepts to develop innovative smart living solutions. Students gain hands-on experience in computer-aided design (CAD) drawing, 3D printing, laser cutting, circuit design, and Python programming. Core topics include facial expression recognition, posture and gesture detection, body balance analysis, and smart motion sensing. The curriculum also addresses ethical issues in AI and promotes responsible design. Through collaborative design thinking and group projects, students conceptualise and prototype intelligent products that enhance daily living through technology-driven innovation.

Schedule

Session	Date	Time	Venue
1	11 Apr	9:30 a.m. – 12:30 p.m.	Decatron Innovation Limited
2	18 Apr		
3	25 Apr		
4	2 May		
5	9 May		
6	16 May		

Address: Decatron Innovation Limited, Unit 03, 19/F, Yen Sheng Centre, 64 Hoi Yuen Road, Kwun Tong, Kowloon.

Suitable for

- S1 to S6 HKAGE student members in 2025/26 school year
- Class size: 25

Students who have satisfactorily completed "Innovation Course (Level III): Applying Artificial Intelligence to Make Smart Living Products (Phase I) (E3INO004C, E3INO004C-2)"

Pre-requisite

No special prerequisites are needed

Medium of Instruction

Cantonese with English Handouts

Certificate

E-Certificate will be awarded to gifted students who have:

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

Enquiries 3940 0101 programme@hkage.org.hk