



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

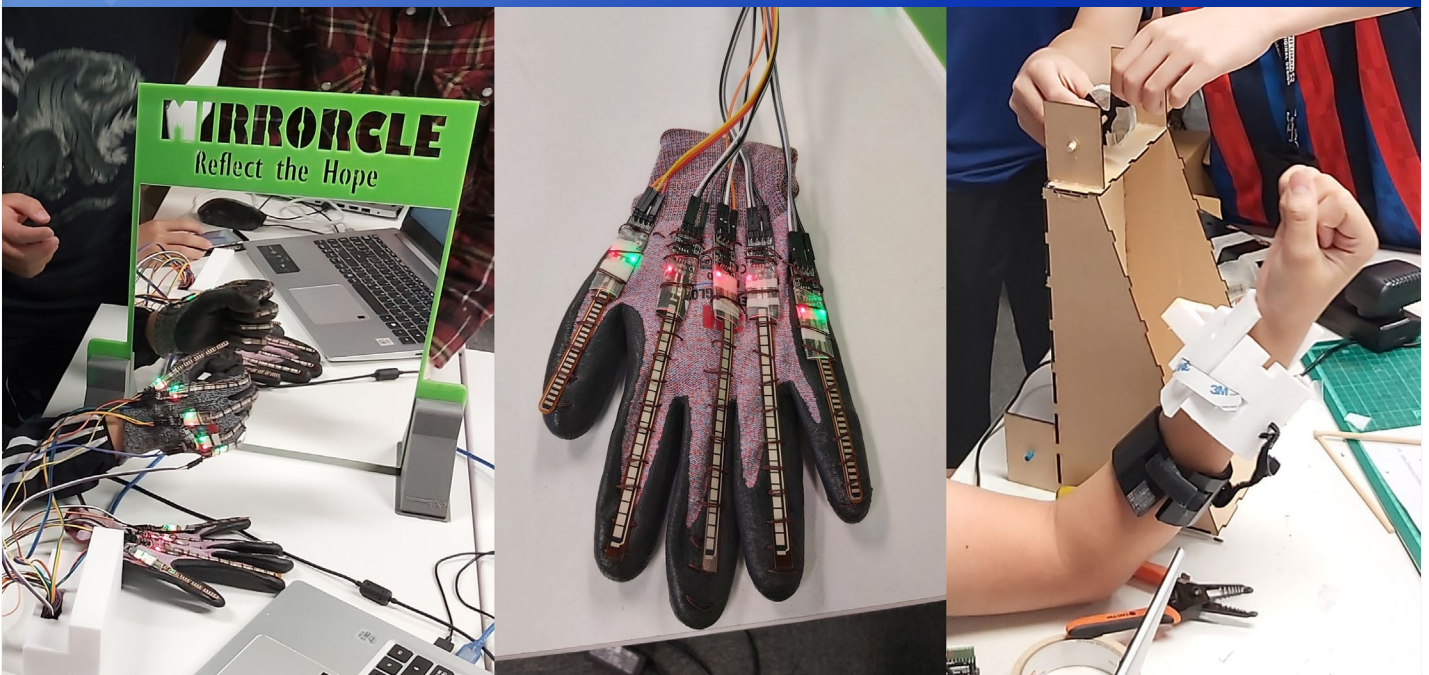
[**Gifted Programme**]

E3IN0003C

(Token- required)

Innovation Course (Level III): Designing and Making Innovative Rehabilitation 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. design and make their own innovative products for stroke patients;
2. apply circuit design, IoT sensors, AI and programming skills to design the products;
3. incorporate a design thinking process in making the products taking into consideration people in need;
4. develop collaboration and communication skills via group design project.

◆ Gifted Programme Introduction

This programme series is designed to enhance students' knowledge and interest in Design Thinking, Internet of Things (IoT), Artificial Intelligence (AI), and applying STEM theories to real-life practice by producing innovative rehabilitation products for stroke patients. 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 prototypes by using 3D printing and laser cutting, electronic circuit design, and computer programming (e.g. Python). The group design mini project would develop students in creativity, collaboration, and design talent.

◆ Schedule

Session	Date	Time	Venue
1	13 Jul	9:30 a.m. – 12:30 p.m.	Decatron Innovation Limited
2	20 Jul		
3	27 Jul		
4	3 Aug		
5	10 Aug		
6	17 Aug		

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

◆ Suitable for

- S1 to S6 HKAGE student members in 2023/24 school year
- Class size: 25

Students who have satisfactorily completed “Innovation Course (Level III): Designing and Making Innovative Rehabilitation Products (Phase I) (E3IN0002C, E3IN0002C-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.