



E1STM009C

(Token- required)

STEM Course (Level I)

Gerontech Smart Cane

To be confirmed

Application Deadline

7 Aug 2023

12:00 noon

Result Release

11 Aug 2023

Intended Learning Outcomes

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

1. explain the gerontechnology and social enterprise;
2. demonstrate coding skills that can solve social issues;
3. demonstrate design thinking skills in prototypes development for elderly;
4. gain empathy for the elderly and their unique needs and challenges and be inspired to design projects that address these needs in a compassionate way.



◆ Introduction

The course aims to illustrate the topic of Hong Kong gerontech social enterprise, introduce the existing Smart Cane product, and increase awareness of aging problems and the concept of gerontechnology. Students will learn to make a paper model of our remarkable BNET-TECH local R&D patented product STICKu, which is capable of multiple practical functions such as fall detection and smart torch with micro:bit programming.

This project-oriented course emphasizes programming skills and design thinking. By completing this course, students should be able to understand the needs of the elderly, build empathy, as well as to design and build creative gerontechnology projects.

◆ Schedule

Session	Date	Time	Venue (TBC)
1	4 Nov 2023	1:00 p.m. – 4:00 p.m.	The Hong Kong Academy for Gifted Education
2	11 Nov 2023		
3	18 Nov 2023		
4	25 Nov 2023		

*Remark: Students must bring your own tablet or laptop to the class.

◆ Target Participants

- P4 – P6 HKAGE student members in 2023/24 school year.
- Class size: 30
- Student members would be selected randomly by the computer system. The decision of HKAGE on the result of the selection should be final.

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

Cantonese with Chinese handouts

◆ Certificate

E-Certificate will be awarded to participants who have:

- Attended 3 sessions; AND
- completed all the assignments with satisfactory performance