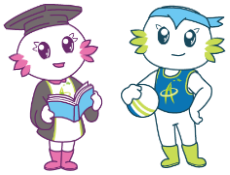
香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education
香港特別行政區政府教育局資助
Subvented by the Education Bureau, the Government of the HKSAR



Learn about Gigi & Yoyo

E1STM008C
(Token- required)

[Gifted Programme]
STEAM Course (Level I)

Energy is Omnipresent

Prof. Marshal Liu

Application Deadline
3 Nov 2025 12:00 noon

Result Release
14 Nov 2025

Intended Learning Outcomes

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

1. describe the indispensability and current status of energy utilization in the world;
2. explain energy generation, transfer, storage, and efficiency;
3. evaluate various renewable energy for the pros and cons, especially in HK ;
4. develop an awareness of the necessity of energy conservation and the development of renewable energy for sustainability.

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

Gifted Programme Introduction

Energy is omnipresent. Human beings are using more and more energy, mainly from fossil fuel. However, fossil fuel is not sustainable, which may run out in this century. Meanwhile, wide use of fossil fuels generates tremendous environmental pollutants and global warming gases. This course will introduce the fundamentals on energy generation, conversion, utilization, transfer and storage, and discuss the incurred environmental problems. Renewable energy provides a promising yet challenging solution for future energy utilization in order to achieve carbon neutrality. Students will also have an opportunity to conduct experiments (making battery and solar car) in the labs of university to obtain first-hand information.

Schedule

Session	Date	Time	Venue
1	6 Dec	9:30 a.m. – 12:30 p.m.	Academic building , HKUST
2	13 Dec	9:30 a.m. – 12:30 p.m.	
3		2:00 p.m. – 5:00 p.m.	
4	20 Dec	9:30 a.m. – 12:30 noon	
5		2:00 p.m. – 5:00 p.m.	

Suitable for

- P4 – P6 HKAGE student members in 2025/26 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

Putonghua with Chinese handouts

Certificate

E-Certificate will be awarded to participantss who have:

- attended 4 sessions; AND
- completed all the assignments with satisfactory performance

Enquiries 3940 0101 programme@hkage.org.hk