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

Anniversary

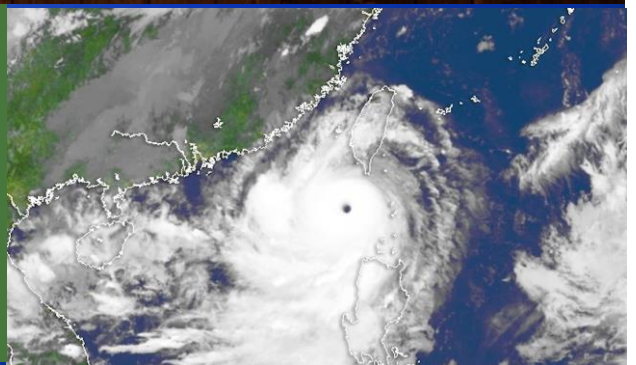**A3ENV005C**

(Token- required)

Environmental Science Course (Level III)

Analytical Research on Climate and Sustainability (Phase 1)

Dr. LAM Yun Fat; Dr. ONG Chung Wo; Mr. CHANG Man Hei Jeffrey
(GEOGSTEM Education Limited)

13 CLIMATE ACTION

Application Deadline

31 Dec 2023

12:00 noon

Result Release

8 Jan 2024

Intended Learning Outcomes

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

1. Describe the concept of climate change, fieldwork survey and applications of environmental instruments;
2. Design basic electronic circuitry and computer coding;
3. Assemble a microclimate sensor and perform instrumental calibration;
4. Design and conduct microclimate and environmental-related fieldwork;
5. Visualize and analyze measurement data.

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

◆ Introduction

Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.--- <Our Common Future> (1987).

Greenhouse gas emissions are causing global temperatures to rise continuously. Extreme weather events such as typhoons, heatwaves, and heavy rainfall are becoming more frequent and severe, resulting in disasters like landslides, tree collapse, floods, and storm surges. As members of the global community, how can we mitigate and adapt to climate change, promote sustainable development, and secure a sustainable future? In this course, students will learn to assemble and utilize microclimate sensors to collect field data on microclimates and environmental factors. By analyzing and integrating the data, students will advocate for climate action plans towards sustainable development in Hong Kong.

◆ Schedule

Session	Date	Time	Venue
1	3 Feb 2024	2:00 – 5:00 p.m.	Room 203, HKAGE
2	17 Feb 2024	2:00 – 5:00 p.m.	Room 203, HKAGE
3	24 Feb 2024	2:00 – 5:00 p.m.	Room 403, HKAGE
4	2 Mar 2024	2:00 – 5:00 p.m.	HKBUAS (Room S212)
5	9 Mar 2024	2:00 – 5:00 p.m.	HKBUAS (Room S212)
6	16 Mar 2024	2:00 – 5:00 p.m.	HKBUAS (Room S212)
7	23 Mar 2024	2:00 – 5:00 p.m.	Room 203, HKAGE
8	6 Apr 2024	2:00 – 5:00 p.m.	Field trip (TBC)
9	13 Apr 2024	12:00 – 5:00 p.m.	Field trip to Ocean Park (TBC)
10	~~20 Apr 2024~~ 27 Apr 2024	2:00 – 5:00 p.m.	Room G01, HKEdCity

◆ Target Participants

- S1 to S6 HKAGE student members in 2023/24 school year
- Class size: 30

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

Chinese with English/Chinese Handouts

◆ Remarks

Participants should bring their own laptop to class.

◆ Screening

Please answer the screening question in the online platform.

*The screening question is designed to help the applicant to understand the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question.

◆ Certificate

E-Certificate will be awarded to participants who have:

- Finished all assignments; and
- attended at least 7 sessions with good performance