

Gifted Education Fund: Off-school Advanced Learning Programmes

Programme No. 2023-05 (For primary students)

Title of programme	Strategies to Tackle Climate Change Challenges as STEAM Professionals
Programme provider	Department of Science and Environmental Studies, The Education University of Hong Kong
Theme(s)	<ul style="list-style-type: none">• STEAM-related mentorship programme• Humanities and social science research programme
Intake	50 students (Primary 4-5 in the 2023/24 school year)
Prerequisite	Nil
Programme delivery period	From May 2024 to Jan 2025 (around 9 months)
Medium of instruction	Course material: Chinese supplemented with English Class teaching/ discussion: Cantonese supplemented with English
Objectives	<ul style="list-style-type: none">• to expose gifted students at upper primary level to various climate change issues as a STEAM professional at an early age;• to broaden gifted students' knowledge, skills and attitudes on climate change issues and interdisciplinary inquiry so that they can learn to work on real-world problems from multiple perspectives as STEAM professionals; and• to nurture positive values and attitudes among gifted students such as responsibility, perseverance, care for others and diligence
Programme outline	<p>This programme aims to introduce various climate change issues to gifted students and engage them in active, quality and challenging interdisciplinary inquiry to tackle climate change issues as a STEAM professional.</p> <p>The programme consists of four phases.</p> <p>Phase 1 (1 month): General understanding of climate change issue and interdisciplinary inquiry</p> <ul style="list-style-type: none">• 2 face-to-face lectures (3 hours each, 6 hours in total)• A general introduction of various STEAM career, and experiences related to the process of inter-disciplinary inquiry.• Students will acquire the knowledge and skills related to the process of inter-disciplinary inquiry in the context of the climate change issues. <p>Phase 2 (2 months): Understanding of strategies to tackle</p>

	<p>climate change issue</p> <ul style="list-style-type: none"> • 4 face-to-face lectures (2.5 hours each, 10 hours in total) led by academics with the support of university student helper(s) for each topic. Each student will choose and study at most two topics for his/ her study in this phase. • 7 topics[#] led by academics of different expertise are selected for students more in-depth inquiry in this programme. • Each student will choose and study at most 2 topics for his/ her study in this phase. <p>Phase 3 (5 months): Guided inquiry under STEAM professionals' supervision</p> <ul style="list-style-type: none"> • Students will choose 1 topic that they have studied in Phase 2. In groups of 7-8, they will engage in in-depth inquiry of the chosen topic under the guidance of academics through exploration, discovery and invention activities. • 8 face-to-face/ online consultations in small groups (1 hour each, 8 hours in total) will be arranged for students in this phase. Academics and/ or university student(s) will supervise and offer mentorship support to the students during the inquiry process. • 1 lesson (4 hours in total) on communication/ presentation skills will be arranged to help students prepare for the exhibition/ showcase event in Phase 4. • Outside of class, each student is expected to spend no less than 20 hours on carrying out the inquiry and writing up an inquiry report. • By the end of this phase, every student will consolidate their findings and submit their inquiry reports in the form of drawings/ posters/ video clips/ presentation slides and propose suggestions for tackling climate change challenge like professionals in relevant fields. <p>Phase 4: Exhibition/ showcase event (4 hours)</p> <ul style="list-style-type: none"> • Students will present the inquiry results of their topics in written and verbal forms to the audience at an exhibition/ showcase event. They will answer questions, and show their achievements and talents to the audience at the Education University of Hong Kong.
Admission fee	Free of charge
Application method	<p>Application form can be downloaded from the following webpage: https://www.edb.gov.hk/en/curriculum-development/curriculum-area/gifted/ge_fund/gef/osalp.html</p> <p>Please complete the application form and send it by post <u>on or before 19 April 2024</u> to the following address:</p> <p>Address: D3 – G/F – 08</p>

	<p>The Education University of Hong Kong 10 Lo Ping Road Tai Po</p> <p>(Attn: Prof Winnie So Wing-mui)</p>
Document(s) to be submitted	<ul style="list-style-type: none"> • a completed application form* <p>* Applicants should write about the following in the section of student's self-introduction in the application form (approximately 300 words in Chinese or English):</p> <ul style="list-style-type: none"> - self-introduction; - 2 topics[#] of interest and explain the reasons; and - expectations of the programme
Enquiry	<p>If you have any questions about this programme, please contact:</p> <p>Mr Tse Hin-fung (The Education University of Hong Kong) Tel no.: 2948 8701 Email: hftse@eduhk.hk</p>
Announcement of results	by late May 2024

Preliminary inquiry topics for students:

<ol style="list-style-type: none"> 1. Air quality and extreme weather 2. Food waste management 3. Green building 4. Ocean and ocean life protection 5. Renewable energy 6. Sustainable agriculture 7. Water resources management
