

Gifted Education Fund: Off-school Advanced Learning Programmes

Title of Programme	Nurturing Gifted Students to Be Entrepreneurs in STEM Industry
Programme Provider	Department of Decision Sciences and Managerial Economics, The Chinese University of Hong Kong (Supporting organisations: The Hong Kong Academy for Gifted Education and Preface Holdings Limited)
Theme	STEM-related Mentorship Programme
Maximum No. of Participants and Class Level in the 2020/21 school year	50 students (Secondary 3-5)
Pre-requisite	Applicants should possess basic computer programming knowledge.
Programme Duration	About 8 months
Medium of Instruction	Course Material: English supplemented with Chinese Class teaching/Discussion: Cantonese supplemented with English
Objectives	<ul style="list-style-type: none"> • To equip gifted students with the essential technology and business knowledge to pave ways for them to become successful entrepreneurs in future careers; • To enhance the ability of gifted students to integrate technology and business knowledge to solve authentic problems in different business and social settings; • To enhance the confidence of students via experiential learning by providing opportunities for students to deal with complicated scenarios in the real world; • To increase gifted students' awareness of the impact of technology on society so that they may start their life planning as soon as possible; and • To nurture the values and attitudes essential for the personal growth of the gifted students such as business ethics, social awareness, sense of corporate social responsibility and integrity

<p>Programme Outline*</p>	<p>This programme aims to unleash the potential of gifted students and enable them to more readily apply business and technology knowledge and skills in the real world when they pursue their further studies and careers. The programme will also nurture values and attitudes essential for personal growth and development of the students.</p> <p>The programme consists of three phases:</p> <p>Phase I: Understanding Artificial Intelligence (AI) and business skills for entrepreneurs</p> <ul style="list-style-type: none"> • An open ceremony (2 hours) • 32 hours of lessons (2 hours for each class) on <ul style="list-style-type: none"> - understanding AI; and - business skills training for entrepreneurs • A visit to an AI firm (2 hours); • 4 sharing sessions with practitioners (2 hours each); • Phase I task: analysis of a start-up; • Mentorship from instructors and student facilitators (via chat group and tutorials); • Infusion of affective education in various parts of this phase <p>Phase II: Data analysis</p> <ul style="list-style-type: none"> • Training classes on AI (12 lessons; 2 hours each) covering data analytics and computational thinking process with hands-on experiences in real life scenarios • Phase II task: an application of an AI program in a real scenario; • Mentorship from experts and student facilitators; • Infusion of affective education in various parts of this phase <p>Phase III: Be an entrepreneur</p> <ul style="list-style-type: none"> • Training classes on writing proposals (6 lessons; 2 hours each) covering project introduction, proposal composing skills, budgeting and financial issues; • Visits to 2 NGOs/firms (2 hours each); • A presentation session/ closing ceremony (2 hours) for students to present their ideas on stage; • Phase III task: proposal and pitch; • Mentorship from instructors, experts and student facilitators; • Affective education on corporate social responsibilities, appreciating, respecting others, accepting one's own limitations, collaborating skills, etc.
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