CIFAL Singapore - Smart and Sustainable CIties

People

Deadline: 28 Mar 2025

Type:	Workshop
Location:	Singapore, Singapore
Date:	1 Apr 2025 to 2 Apr 2025
Duration:	10 Hours
Programme Area:	Decentralize Cooperation Programme
Website:	https://www.ntu.edu.sg/about-us/sustainability/sustainability-education/cifal
Price:	$0.00
Event Focal Point Email:	crystal.wong@hktramways.com
Partnership:	CIFAL Singapore, Tramplus Limited

BACKGROUND

CIFAL Singapore collaborates with Tramplus Limited, Hong Kong in bringing the programme beyond the Singapore borders. The idea is to tailor the curriculum to include lessons from Singapore's sustainability efforts, while also having student work to be applicable to Hong Kong context. We believe that by working together, we can create a program that not only educates but also inspires our student to apply these insights effectively.

EVENT OBJECTIVES

The tour is a STEM-focused experience that offers experiential learning on global ESG landscape. Students will explore the integration of AI and technology in Singapore's smart city systems, aiming to deepen their understanding of sustainability and innovation. 1. Understanding the regional ESG landscape 2. Recognizing Smart City development differences between Hong Kong and Singapore. 3. Identifying and integrating advanced technologies like AI and IoT into their smart city projects.

LEARNING OBJECTIVES

Singapore's ESG goals, sustainability and urban planning, policy development, and future plans. 2. Enable students to create a sustainability advocacy plan for their communities in HK 3. Enable students to develop a proposal or prototype using AI and IoT for smart city/ESG solutions after the trip, and they will have to present to the school after returning to Hong Kong.

CONTENT AND STRUCTURE

Lectures on sustainable innovations in Singapore - Campus tour of NTU showcasing innovative solutions to climate change and environment - Interactive and group sessions to develop a prototype of solutions for HK

METHODOLOGY

Introductory lectures and information sharing sessions will give them some background and update on recent innovations. Campus tour to show the students actual real-life application of sustainable solutions in infrastructure. Group activities to encourage thinking out of the box, to create innovative prototypes.

TARGETED AUDIENCE

Secondary 3 to Secondary 5 (S3–S5) at an all-girls school in Hong Kong, preparing for advanced STEM and sustainability learning

ADDITIONAL INFORMATION

hey students will participate in an AI program conducted by their Head of Academic, covering some contents with UN Sustainable Development Goals (SDGs) and regional sustainability development, providing a foundation for their study tour.