

EDUCATION BUREAU CIRCULAR MEMORANDUM NO. 165/2022

From : Secretary for Education

To : Heads of Government, Aided (including special schools), Caput and Direct Subsidy Scheme Secondary and Primary Schools

Ref. : EDB/CDI/SC/821/14

Date : 22 September 2022

Professional Development Programme on Innovation and Technology for STEAM Co-ordinators of Schools

Purpose

This is to invite the STEAM co-ordinators of primary and secondary schools to participate in the captioned professional development programme.

Background

2. Building on the existing foundation of implementing STEM education, the Education Bureau (EDB) will further develop science and innovation and technology (I&T) education regarding the enhanced promotion of STEAM (Science, Technology, Engineering, the Arts and Mathematics) education in primary and secondary schools. Through STEAM education, we aim to equip students with competencies required in the 21st century as well as to nurture I&T talents to respond effectively to the opportunities presented by the technological advancement in Hong Kong and to complement the development of our country. STEAM education and STEM education share the same principle, which emphasises building in students a solid foundation in science, mathematics and technology, strengthening their ability to integrate and apply the knowledge and skills across disciplines, cultivating positive values and attitudes, particularly in understanding I&T and digital technology and its application, as well as enhancing students' creative thinking and entrepreneurial spirit.

3. To enhance the professional capacity of STEAM co-ordinators, the EDB will collaborate with different I&T institutes, post-secondary institutions and professional bodies to offer STEAM co-ordinators professional development programme on I&T, so as to keep them abreast of the latest developments in science and technology. Meanwhile, we will continue to facilitate schools in promoting STEAM education through various strategies, including optimising school curricula on an ongoing basis, strengthening teachers' professional development training and providing resource support.

Details

4. **The EDB and Cyberport will co-organise a series of new professional development training courses on I&T for STEAM co-ordinators** of public sector and Direct Subsidy Scheme primary and secondary schools from October 2022 to March 2023. The courses aim to facilitate the co-ordinators' understanding of the latest development of I&T as well as their mastery of its application and strategies for learning and teaching, and to assist them in infusing I&T learning elements and making good use of digital technology when planning both in-class and outside-classroom STEAM learning activities in schools for the promotion of STEAM education.

5. The Professional Development Programme on Innovation and Technology for STEAM Co-ordinators of Schools covers a variety of I&T topics, such as AI Robotics, Green Technology, Gerontechnology, Art Tech, Financial Technology and Augmented Reality (AR)/Virtual Reality (VR). STEAM co-ordinators can select and apply for the course(s) based on their interest and the school's development needs. Each training course will be conducted in the mode of whole-day workshop, which includes talks and demonstrations on I&T, hands-on activities, teacher sharing, visits to startup companies, etc. For details of the courses, please refer to **Annex**. Teachers can apply for the courses through Training Calendar System (TCS) of the EDB (<https://tcs.edb.gov.hk>).



Contact Person

6. For any enquiries, please contact Ms Y P CHUANG (3698 3438) or Mr William LAU (3698 3440) of the Science Education Section, Curriculum Support Division, EDB.

Ms Edith YC TSE
for Secretary for Education

c.c. Heads of Sections – for information

**Professional Development Programme on Innovation and Technology
for STEAM Co-ordinators of Schools**

Teachers of primary and secondary schools can apply for the following courses through Training Calendar System (TCS)¹:

Target for STEAM co-ordinators of primary schools

Course ID	Course Content	I&T Themes covered	Date
CSD020220120	<ul style="list-style-type: none"> • Talks and demonstrations on I&T • Hands-on activities • Teacher sharing • Discussion • Visits to startup companies 	<ul style="list-style-type: none"> • Gerontechnology • Art Tech (including AR/VR) 	Nov 2022
CSD020220109		<ul style="list-style-type: none"> • IoT • Green Technology 	Nov 2022
CSD020220123		<ul style="list-style-type: none"> • AI Robotics • Robotics & Drone Coding 	Jan 2023

Target for STEAM co-ordinators of secondary schools

Course ID	Course Content	I&T Themes covered	Date
CSD020220110	<ul style="list-style-type: none"> • Talks and demonstrations on I&T • Hands-on activities • Teacher sharing • Discussion • Visits to startup companies 	<ul style="list-style-type: none"> • AI Robotics • Green Technology 	Oct 2022
CSD020220111		<ul style="list-style-type: none"> • Gerontechnology • AR/VR/Metaverse 	Nov 2022
CSD020220125		<ul style="list-style-type: none"> • IoT • Robotics & Drone Coding 	Dec 2022
CSD020220126		<ul style="list-style-type: none"> • AI Robotics • Big Data 	Dec 2022
CSD020220127		<ul style="list-style-type: none"> • IoT • Art Tech (including AR/VR/Metaverse) 	Feb 2023
CSD020220124		<ul style="list-style-type: none"> • Blockchain • Big Data 	Mar 2023
CSD020220128		<ul style="list-style-type: none"> • Blockchain • Financial Technology 	Mar 2023

¹ The courses to be organised in Oct and Nov 2022 have been released on 22 Sep 2022 for application through TCS of the EDB. The other courses will be posted onto TCS in due course.