

EDUCATION BUREAU CIRCULAR MEMORANDUM NO. 86 /2023

From : Secretary for Education
To : Heads of Government, Aided (including Special Schools), Caput and Direct Subsidy Scheme (DSS) Schools

Ref. : EDB/CSD/TE/08-25/01
Date : 19 May 2023

Curriculum Modules on Innovation and Technology Education - “Enriched Module on Coding Education for Upper Primary Level” and “Module on Artificial Intelligence for Junior Secondary Level” Professional Development Programmes for Teachers

Summary

The purpose of this circular memorandum is to announce that the professional development programmes for teachers about the captioned curriculum modules newly developed by the Education Bureau (EDB) to further promote innovation and technology (I&T) education in schools.

Background

2. To dovetail with the Chief Executive’s 2022 Policy Address, EDB has stepped up the promotion of STEAM (Science, Technology, Engineering, the Arts and Mathematics) education in primary and secondary schools and I&T education for all students while strengthening the cultivation of students’ interest and capabilities in learning information technology (IT) and I&T. EDB continues to incorporate I&T learning elements into both the primary and secondary curricula and is developing the “Enriched Module on Coding Education for Upper Primary Level” and “Module on Artificial Intelligence for Junior Secondary Level”. The two modules are adapted from the project deliverables¹ of “Coolthink@JC” and “CUHK Jockey Club AI for the Future Project”, which were initiated and funded by the Hong Kong Jockey Club Charities Trust (HKJCCT).

Details

3. EDB will launch the captioned curriculum modules on I&T education in June for adoption at the upper primary and junior secondary levels. Relevant professional development programmes will be organised concurrently to equip teachers to teach the modules and enhance curriculum planning. Teachers will be enabled to further master the teaching strategies to strengthen the implementation of STEAM education and I&T learning for all students.

4. The “Enriched Module on Coding Education for Upper Primary Level” and the “Module on Artificial Intelligence for Junior Secondary Level” aim to help teachers integrate I&T elements into

¹ “CoolThink@JC” is initiated and funded by the Hong Kong Jockey Club Charities Trust (HKJCCT) and co-created by the Education University of Hong Kong, the Massachusetts Institute of Technology, and the City University of Hong Kong. “CUHK Jockey Club AI for the Future Project” is funded by the HKJCCT and co-organised by the Faculty of Engineering and the Faculty of Education of the Chinese University of Hong Kong.

learning and teaching and incorporate those elements into lessons (e.g. General Studies for primary schools, Information and Communication Technology (ICT) for secondary schools), so as to further develop students’ computational thinking and strengthen I&T learning. Details of the modules are as follows:



“Enriched Module on Coding Education for Upper Primary Level”

- The module covers basic computational thinking concepts, namely abstraction, algorithm and automation, as well as connection with physical objects, which is in line with the revised “Computational Thinking – Coding Education: Supplement to the Primary Curriculum” (supplementary document) issued in 2020. The lesson time for the module is about 10 to 14 hours each year at each level. Schools are advised to make reference to the revised supplementary document for curriculum planning to offer coding education to all upper primary students that cater for their learning needs.

“Module on Artificial Intelligence for Junior Secondary Level”

- The module covers topics on AI basics, AI ethics, computer vision, computer speech, virtual reality, robotics, societal impact and future of work, etc. Schools are advised to allocate about 10 to 14 hours at the junior secondary level to teach the above content of the module in the ICT knowledge context of the Technology Education Key Learning Area.

5. The briefing session on the “Enriched Module on Coding Education for Upper Primary Level” (Course Code: CSD020230355) will be organised on 16 June 2023, and the briefing session on the “Module on Artificial Intelligence for Junior Secondary Level” (Course Code: CSD020230364) will be held on 19 June 2023. For details of the briefing sessions, please visit the Training Calendar System (TCS), and teachers can apply through TCS. Other relevant workshops will also be organised from the 2023/24 school year onwards to further equip teachers with the related pedagogical knowledge.

Briefing Session	QR Code
16 June 2023: Briefing Session on the “Enriched Module on Coding Education for Upper Primary Level” (New) (Course Code: CSD020230355)	
19 June 2023: Briefing Session on the “Module on Artificial Intelligence for Junior Secondary Level” (New) (Course Code: CSD020230364)	

Enquiries

6. For enquiries, please contact Ms Jacqueline TSE (coding education for the primary level) or Ms Kathy FAN (AI for the junior secondary level) of the Technology Education Section, Curriculum Support Division, Education Bureau on 3698 3133 or 3698 3130 respectively.

Henry LIN
for Secretary for Education

cc: Heads of Sections – for information