Information and Communication Technology

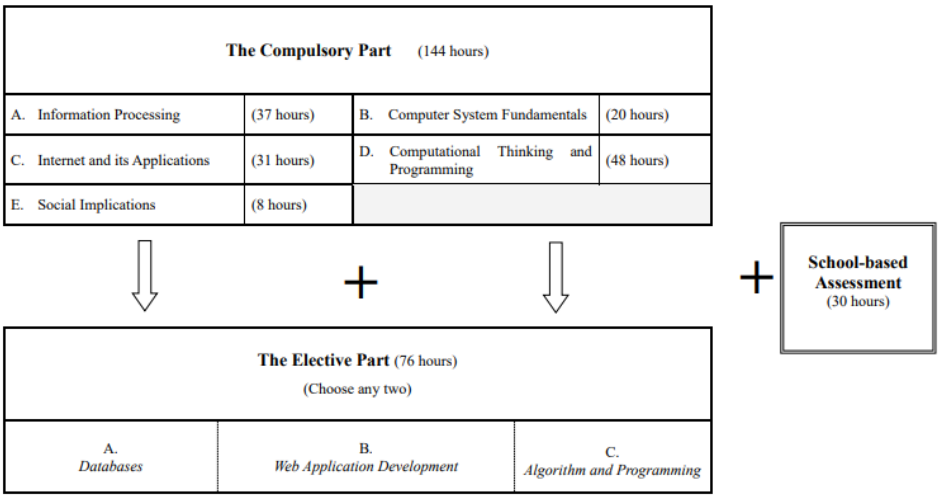
[applicable to the 2028 HKDSE Examination and onwards]

Technology Education Section
Curriculum Support Division
Education Bureau

Curriculum Aims

- **The senior secondary ICT curriculum aims to**
  - provide students with a body of essential knowledge, concepts and applications of information, communication and computer systems;
  - equip students with problem-solving and communication skills, and encourage them to think critically and creatively;
  - develop students into competent, effective, discriminating, ethical and confident users of ICT, so as to support their lifelong learning; and
  - provide students with opportunities to appreciate the impact of ICT on our knowledge-based society, so as to nurture in them positive values and attitudes towards this area.

Curriculum Framework



Curriculum Framework

- **The curriculum is organised into a Compulsory Part and an Elective Part.**
- The Compulsory Part of the curriculum occupies 144 hours and spans approximately one and a half school years.
  - It comprises a number of topics involving the fundamental principles in information and communication technologies and provides students with a solid foundation and broad area of study in ICT. The Compulsory Part consists of five modules, namely Information Processing, Computer System Fundamentals, Internet and Its Applications, Computational Thinking and Programming and Social Implications.
- The Elective Part takes up about 76 hours of curriculum time and spans about one school year.
  - Three options, drawn from distinctive fields of computing and information science and their applications, are offered in the Elective Part. Based on their abilities, interests and needs, students are required **to choose two specialised areas for in-depth study**. The options in the Elective Part can be broadly categorised as those illustrating applications of computers in specific areas, and those intended for students who will pursue further studies in ICT as a discipline in tertiary education, but the two are not mutually exclusive. The options are **Databases**, **Web Application Development** and **Algorithm and Programming**.

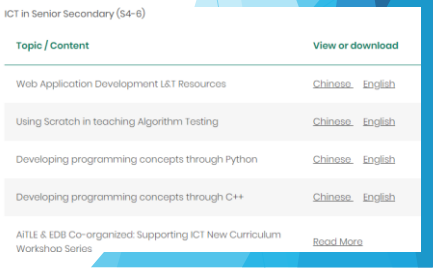
Assessment Mode

- **Public Assessment**
  - In the public examination for the ICT curriculum, a standards-referenced approach will be adopted for grading and reporting student performance. Different types of items are used to assess students' performance in a broad range of skills and abilities. The types of items include multiple-choice questions and structured data-response questions.
- **School-based Assessment**
  - A range of assessment practices, such as **practical tasks**, **written tests**, **projects** and **oral questioning**, suited to ICT should be used to promote the attainment of the various learning outcomes.

Component		Weighting	Duration
Public examination	Paper 1 Compulsory Part	55%	2 hours
	Paper 2 Elective Part (choose two options only) 2A *Databases* 2B *Web Application Development* 2C *Algorithm and Programming*	25%	1 hour 30 minutes
School-based Assessment (SBA)		20%	

Examples for Learning and Teaching Resources

- The purpose of learning and teaching resources is to provide a basis for students' learning experiences. They include not only textbooks, workbooks and audio-visual teaching aids produced by the EDB or other organisations but also web-based learning materials, computer software, the Internet, the media, libraries, resources in the natural environment, and people.
- All of these should be drawn upon to broaden students' learning experiences and meet their different learning needs. If used effectively, they will help them to: consolidate what they have learnt; extend and construct knowledge for themselves; and develop the learning strategies, generic skills, values and attitudes they need – and thus lay a solid foundation for lifelong learning.
- **ICT in Senior Secondary (S4-6)**
  - https://www.edb.gov.hk/en/curriculum-development/kla/technology-edu/resources/computer-edu/resources.html


ICT in Senior Secondary (S4-6)

Topic / Content	View or download
Web Application Development L&T Resources	Chinese English
Using Scratch in teaching Algorithm Testing	Chinese English
Developing programming concepts through Python	Chinese English
Developing programming concepts through C++	Chinese English
AITLE & EDB Co-organized: Supporting ICT New Curriculum Workshop Series	Read More

Reference

- Curriculum and Assessment Guide of Information and Communication Technology (Secondary 4 - 6)

  Path: https://www.edb.gov.hk/attachment/en/curriculum-development/kla/technology-edu/curriculum-doc/ICT_C&A_Guide_e_final.pdf

- For enquiries, please contact respective subject teacher(s) or class teacher(s) at school

Thank you