Satit Prasarnmit International Programme
Curriculum Statement – Term 3 – 2020/21
Key Stage 4
Yr 10 IGCSE Computer Science (0478)

Secondary

Pearson
Edexcel

Cambridge Assessment
International Education

Course Content

In term 3 Computer Science course will focus on High and low-level languages, Security, Ethics and Programming concepts.

Programmers use many different programming languages to communicate with computers. Computers only "understand" machine code. That's why in chapter 7 we'll be covering concepts of various languages used for a human and computer to understand each other.

In Chapter 8 students will learn about the importance of keeping the data safe and the ways to do so by using encryption and understanding the purposes of firewall, SSL, TLS. This chapter also contains knowledge on ethics, including intellectual property issues, privacy issues and effect of computers on society.

Finally, theoretical knowledge from the content of this term will be tested by hands-on programming projects, unit tests and an end-of-term exam.

Resources

1. Hodder Cambridge IGCSE Computer Science by David Watson, Helen Williams, chapters 7-9, p. 139-201
2. https://www.pgonline.co.uk
3. Various media content from teacher-selected sources will be posted on Google Classroom throughout the term

Assessment

- Homework (15%)

- Notebooks (5%)

- Unit tests (30%)

- End-of-term assessment (50%)