

SING YIN SECONDARY SCHOOL

Syllabus for Computer and Information Technology - September 2016 / July 2017

FORM SIX

Objectives:

Students will learn about:

- The personal, social and commercial activities that are available on the Internet;
- How to participate in various Internet activities such as searching for Information, sharing opinions, and exchanging messages and files;
- The technologies involved in transmitting and displaying multimedia elements on the Internet;
- The design and construction of simple web pages for an intended audience;
- How to identify the objectives of an algorithm, trace the logical flow and examine values of variables during execution;
- Equity issues relating to access to ICT;
- Health hazards and preventive measures in using ICT;
- Major issues regarding intellectual property and privacy;
- The potential threats on the Internet and measures to reduce them;
- The need to use ICT safety, sensible, legally and ethically.

Textbook : NSS Information and Communication Technology Compulsory 2
 NSS Information and Communication Technology Compulsory 3
 (Longman)

	periods allocated
1. <u>INTERNET SERVICES AND APPLICATION</u>	4
A. Describe the concepts of streaming technology and its application	
B. Value and appraise the significance of the development of the Internet	
2. <u>ELEMENTARY WEB AUTHORING</u>	12
A. Practice the basic of HTML	
B. Design and construct web pages by writing HTML	
C. Upload the web pages onto the World Wide Web	
3. <u>ALGORITHM DESIGN</u>	4
A. Define algorithm using pseudo code and flowchart	
B. Program tracing	
4. <u>EQUITY OF ACCESS</u>	2
A. Pros and cons of freedom of information on the Internet	
B. Equity issues	
5. <u>WORK AND HEALTH ISSUES</u>	3
A. Change in nature of work	
B. Identify health hazards associated with the use of ICT	

6. INTELLECTUAL PROPERTY 8
- A. Basic idea of intellectual property and copyright.
 - B. Difference between open source and non-open source software.
 - C. Benefits and risks of different licensing schemes.
 - D. Copyright in software and Internet piracy.
7. THREATS AND SECURITY ON THE INTERNET 12
- A. Threats on the Internet.
 - B. Security applications.
 - C. Ways to maintain privacy.
 - D. Information encryption technologies
 - E. Control access of information on the Internet
 - F. Electronic transactions
 - G. Latest developments in security measures.
8. COURSE WORK GUIDANCE AND CHECKING 5
9. GENERAL REVISION AND TESTS 5
- (11 cycles)

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Signature of Teacher-in-charge: _____

Checked by : _____