

Summary

Strand 3 IT SYSTEMS Draft

Subject	Year	Start date	Duration
Information Technology in a Global Society	IB1	Week 2, September	6 weeks 10 hours

Course Part

CORE

Description

Strand 3 IT SYSTEMS

Curriculum

Aims

Develop the student's understanding of the capabilities of current and emerging IT systems and to evaluate their impact on a range of stakeholders

Enable students to apply their knowledge of existing IT systems to various scenarios and to make informed judgments about the effects of IT developments on them

Objectives

Knowledge and understanding of specified content

demonstrate technical knowledge of ITGS terminology, concepts and tools

demonstrate technical knowledge of IT systems

Application and analysis

explain the impacts of IT applications and developments in specified scenarios

Synthesis and evaluation

evaluate a solution involving IT to a specified problem using knowledge of IT systems

Syllabus Content

Strand 3: IT systems

Core

3.1 Hardware

3.2 Software

3.3 Networks

3.4 Internet

3.5 Personal and public communications

3.6 Multimedia/digital media

3.7 Databases

3.8 Spreadsheets, modelling and simulations

3.9 Introduction to project management

Additional higher level

3.10 IT systems in organizations

3.11 Robotics, artificial intelligence and expert systems

3.12 Information systems specific to the annually issued case study

Concepts

Hardware, Software, Networks, Security, Multimedia, Databases, Computer, Models and Simulations.

ATL Skills

Approaches to Learning



Thinking

- In this unit, we will

ask students to formulate a reasoned argument to support their opinion or conclusion

give students time to think through their answers before asking them for a response

reward a new personal understanding, solution or approach to an issue

ask questions that required the use of knowledge from a different subject from the one you are teaching



Developing IB Learners

Learner Profile



Inquirers



Knowledgeable



Thinkers



Reflective



Assessment

F Formative assessment

Students' progress will be monitored through dialogue of 1-1, group and class discussions. Assessment strategies for this unit will include a variety of methods to cater for all learning styles (kinesthetic, auditory and visual learners) and to engage in the syllabus outline thoroughly. All formal summative evaluations will be marked according to IB criteria that ranges from grade 1 (very poor) to grade 7 (excellent performance). Students assessments include:

- Mini quizzes and formative activities to reinforce certain concepts.
- Projects will be given but not limited to, oral presentations.
- Short question and answer based on paper 1 and paper 2 components
- Topic starter/activities template to produce resources prepared to teach and deliver to the class.
- Homework is assigned as a vital extension of the classroom work. Students can be expected to regularly receive homework designed to reinforce concepts and skills covered in class.
- Homework includes, but not limited to, readings, worksheets, writing assignments, research, and revision for summative assessment

S Summative assessment

A written theory paper exam at the end of this specific themed topic.

A Assessment criteria

SL Criteria

External Assessment

Paper 1: Structured questions that assess in an integrated way the three strands of the syllabus

Social and ethical significance

Application to specific scenarios

IT systems

HL Criteria

External Assessment

Paper 1: Structured questions that assess in an integrated way the three strands of the syllabus, including HL topics

Social and ethical significance

Application to specific scenarios

IT systems

Description