Strand 1: Social / Ethical Issues

Social/ethical considerations linked to specified IT developments.

Twelve issues that must be studied are:

1.1 Reliability and integrity
1.2 Security
1.3 Privacy and anonymity
1.4 Authenticity
1.5 Intellectual property
1.6 The digital divide and equality of access
1.7 Surveillance
1.8 Globalization and cultural diversity
1.9 Policies
1.10 Standards
1.11 People and machines
1.12 Digital citizenship

HL Extension topics and Case Study

Strand 2: Applications to Specific Scenarios

Scenarios based on real life situation must be used when addressing specified IT developments.

The six themes that must be studied are:

2.1 Business and employment
2.2 Education and training
2.3 Environment
2.4 Health
2.5 Home and leisure
2.6 Politics and government

HL Extension topics and Case Study

Strand 3: IT Systems

The terminology, concepts and tools relating to specified IT developments. The nine topics that must be studied are:

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

HL Extension- two topics that must be studied:

3.10 IT systems in organizations
3.11 Robotics, artificial intelligence and expert systems

Information systems specific to annual case study
Analyzing a News Item or Specific Scenario
Source of the New Item or the Specific Scenario

**Strand 1: Social and Ethical Significance**
- Describe social/ethical impacts (present a balanced point of view using ITGS vocabulary and concepts).
- Describe one major problem emerging from the impacts.
- Evaluate feasible solutions to problems emerging from the scenario and evaluate why one is a better solution over the others.

**Strand 2: Applications to Specific Scenarios**
- Identify one of the six specific scenario themes.
- Describe the scenario: who, what, when, where and how (include the names of companies, people, and their positions).

**Stakeholders**
- Identify the main stakeholders: individuals, business(es), organization(s) or institution(s) in the scenario.
- Describe how the main stakeholders are affected by the IT developments and/or proposed solutions.

**Strand 3: IT Systems**
- Identify all people, hardware, software, networks, communication technologies, data, methods, policies relating to the IT systems in the scenario.
- Define IT vocabulary related to the scenario.
- Describe IT concepts and processes (step-by-step how IT systems work).