Liverpool Girls' High School

Innovation Excellence Learning



Information Processes and Technology

STAGE 6 HSC ~ COURSE OUTLINE

Information Processes and Technology is the study of computer-based information systems. It focuses on information processes performed by these systems and the information technology that allows them to take place. Social, ethical and non-computer procedures resulting from the processes are considered. Different types of information systems are studied. Through project work, students will create their own information system to meet an identified need.

MAIN TOPIC COVERED HSC Course

Project Management (20%)

- Techniques for managing a project
- Understanding the problem
- Planning
- Design solutions
- Implementing
- Testing, evaluating and maintaining

Information Systems and Databases (20%)

- Information Systems
- Database information systems
- Organisation
- Storage and retrieval
- Other information processes
- Issues related to information systems

Communication Systems (20%)

- Characteristics of communication systems
- Examples of communication systems
- Transmitting and receiving in communication systems
- Other information processes in communication systems
- Managing communication systems
- Issues related to communication systems

Option Strands (40%)

Students will select two of the following options:

- Transaction processing systems
- Decision support systems
- Automated manufacturing systems
- Multimedia systems

SYLLABUS OUTCOMES

- **H1.1** Applies and explains an understanding of the nature and function of information technologies to a specific practical situation
- **H1.2** Explains and justifies the way in which information systems relate to information processes in a specific context
- **H2.1** Analyses and describes a system in terms of the information processes involved
- **H2.2** Develops and explains solutions for an identified need which address all of the information processes
- **H3.1** Evaluates and discusses the effect of information systems on the individual, society and the environment
- **H3.2** Demonstrates and explains ethical practice in the use of information systems, technologies and processes
- H4.1 Proposes and justifies ways in which information systems will meet emerging needs



- **H5.1** Justifies the selection and use of appropriate resources and tools to effectively develop and manage projects
- **H5.2** Assesses the ethical implications of selecting and using specific resources and tools, recommends and justifies the choices
- **H6.1** Analyses situations, identifies needs, proposes and then develops solutions
- **H6.2** Selects, justifies and applies methodical approaches to planning, designing or implementing solutions
- H7.1 Implements and explains effective management techniques
- H7.2 Uses methods to thoroughly document the development of individual and team projects

BOSTES Assessment Information

External examination	Marks	Internal assessment	Weighting	
Section I – Core Objective response questions	response questions 20 A. Project Management		20%	
Section II – Core Short-answer questions	40	B. Information Systems and Databases	20%	
Section III – Options Candidates answer two	40	C. Communication Systems	20%	
questions on the options they have studied		D. Option Strands	40%	
TOTAL MARKS	100	TOTAL MARKS	100%	

School Based Evidence of Learning ~ Formal Task Schedule

Task No.	Targeted Outcomes	Learning Context	Task	Date Due	Weighting			Marks	
					Α	В	С	D	
1	H – 1.1, 6.2	Information Systems and Databases	Database Task	T4 Wk 7		10%		5%	15%
2	H – 2.2,3.2, 4.1, 5.1, 5.2, 6.1, 6.2, 7.1, 7.2	Information systems and data bases – Project management	Mid-Course Test	T1 Wk 3	5%	5%	5%	5%	20%
3	H – 6.1, 7.1, 7.2	Project management	Major Project	T1 Wk 8	10%		5%	10%	25%
4	H – 1.1, 1.2, 2.2, 3.1, 3.2, 4.1, 5.1, 5.2, 6.1, 6.2, 7.1, 7.2	All areas	Trial HSC Examination	T2 Wk 9/10	5%	5%	10%	20%	40%
TOTAL				20%	20%	20%	40%	<u>100%</u>	

