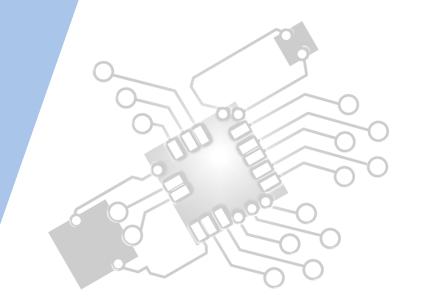


Planning & system installation

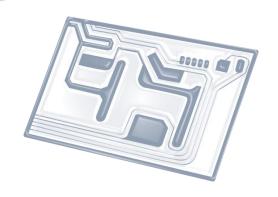
IB Computer Science







HL Topics 1-7, D1-4





1: System design



2: Computer Organisation



3: Networks



4: Computational thinking



5: Abstract data structures



6: Resource management



7: Control



D: OOP



HL & SL 1.1 Overview

Planning and system installation

- 1.1.1 Identify the context for which a new system is planned.
- 1.1.2 Describe the need for change management
- 1.1.3 Outline compatibility issues resulting from situations including legacy systems or business mergers.
- 1.1.4 Compare the implementation of systems using a client's hardware with hosting systems remotely
- 1.1.5 Evaluate alternative installation processes
- 1.1.6 Discuss problems that may arise as a part of data migration
- 1.1.7 Suggest various types of testing

User focus

- 1.1.8 Describe the importance of user documentation
- 1.1.9 Evaluate different methods of providing user documentation
- 1.1.10 Evaluate different methods of delivering user training

System backup

- 1.1.11 Identify a range of causes of data loss
- 1.1.12 Outline the consequences of data loss in a specified situation
- 1.1.13 Describe a range of methods that can be used to prevent data loss

Software deployment

1.1.14 Describe strategies for managing releases and updates



1: System design

2: Computer Organisation





3: Networks

4: Computational thinking





5: Abstract data structures

6: Resource management



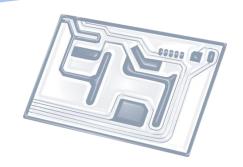


7: Control

D: OOP







Topic 1.1.1

Identify the context for which a new system is planned



Designing a new system

 Before a system is designed, what the new system should do needs to be identified.



Systems analyst

- Systems are designed and analysed by systems analysts.
- S/He looks at the existing system and tries document how it works through observation.
- This can be done using surveys, interviewing users, observing them or by tracing how information is handled by looking at the documents produced by it.



Evaluation

- Then the systems analyst must make an evaluation of the current system.
- What works fine, what doesn't?
- Based on this, he proposes a new system to be created that should work better than the old one, increasing productivity.



Factors

- For this, the systems analyst has to factor in a number of things:
- what existing infrastructure from the existing system can be used?
- What requirements on hardware and software will the new system have?
- Are there any ethical issues resulting, for example will the new system make people redundant, leading to loss of jobs?
 Will people need retraining?