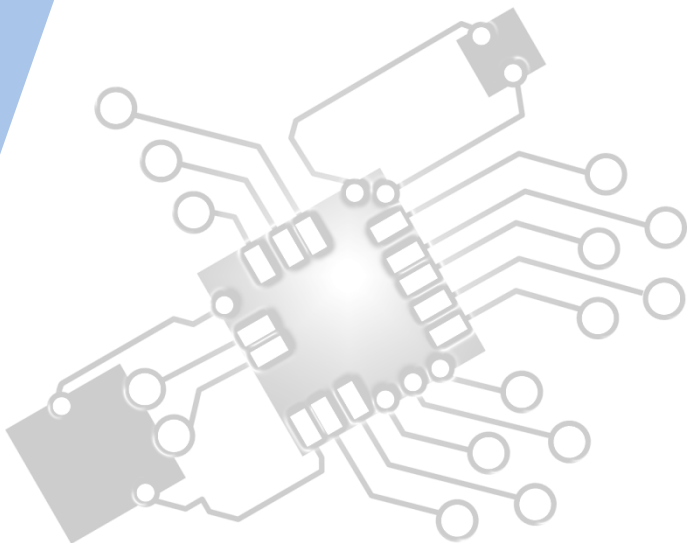




Software deployment

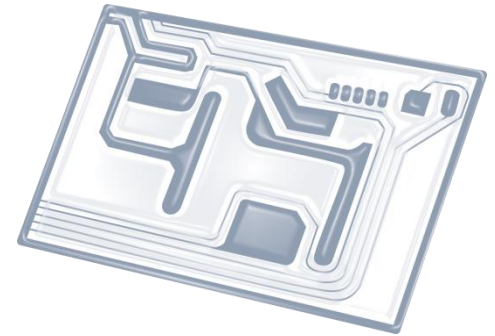
IB Computer Science



Content developed by
Dartford Grammar School
Computer Science Department



HL Topics 1-7, D1-4



1: System design



2: Computer Organisation



3: Networks



4: Computational thinking



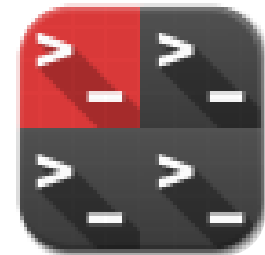
5: Abstract data structures



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

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6: Resource management

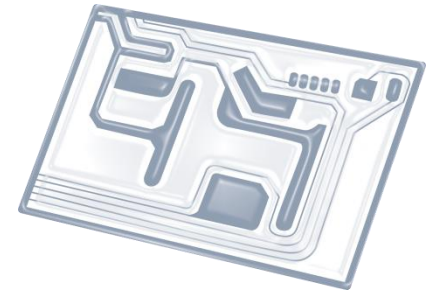


7: Control

D: OOP



Topic 1.1.14



Describe strategies for managing
releases and **updates**

Types of updates

- Automatic
- Manual

Automatic updates

- The system checks automatically for updates over the internet from time to time. If updates are available, they are downloaded and installed automatically.
- Advantages:
 - Updates get installed automatically. Inexperienced users have an easy chance to get the updates.
 - No need for software manufacturer to contact every user about the new update
- Disadvantages:
 - Users miss updates if they are not connected to the internet.
 - If updates bring a major change of system functions, users might not be informed about it

Manual updates

- The software manufacturer contacts every user about the new update and supplies the installation package to him to be installed.
- Advantages:
 - Users have more control what updates they want to install
 - Users get to know if an update brings major changes to how the system works
- Disadvantages:
 - Users might miss an update fixing security issues
 - Users might not know how to install the update
 - Users might harm system by wrongly installing update
 - Users might lose medium containing the update