Assessment Schedule – 2012
Technology: Demonstrate understanding of advanced concepts from computer science (91371)

Final grades will be decided using professional judgement based on a holistic examination of the evidence provided against the criteria.

Issues from the Specifications

Authentic candidate submissions will be recognisable because of specific contexts associated with the work. This does not imply that submissions will arise only from the candidate's practice. However, where the candidate's practice does not provide the immediate source of a specific context, one would expect to see that several sources of information relating to modelling had been applied within a specific context. In both cases, the marker will be able to detect the candidate's voice. In situations where information does not have some aspect of student voice, it is difficult to establish whether the candidate has actually demonstrated understanding or simply identified information.

Candidates who have simply identified information by reproducing information from sources without making use of that information have not demonstrated understanding.

Where a candidate has provided a brief answer, the answer should not be penalised because of length.

Candidate work in excess of 14 pages should not be marked.

Where work is illegible, it cannot be marked.

Digital submissions that cannot be read cannot be marked.

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of advanced concepts from computer science involves	Demonstrate in-depth understanding of advanced concepts from computer science involves	Demonstrate comprehensive understanding of advanced concepts from computer science involves
describing ways in which different types of data can be represented using bits	comparing and contrasting different ways in which different types of data can be represented using bits and discussing the implications	evaluating a widely used system for compression coding, error control coding, or encryption
describing the concept of encoding information using compression coding, error control coding, and encryption; and typical uses of encoded information	discussing how a widely used technology is enabled by one or more of compression coding, error control coding, and encryption	suggesting improvements to a given human-computer interface based on an evaluation in terms of usability heuristics.
providing examples from human-computer interfaces that illustrate usability heuristics.	evaluating a given human-computer interface in terms of usability heuristics.	