Assessment Schedule - 2016

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

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

Candidate work in excess of 10 pages must not be marked.

Where a candidate has used a small font, markers should make a judgement about where to stop marking. This judgement should be made relative to 10 pages at Arial font.

Where work is illegible, it cannot be marked.

Digital submissions that cannot be read cannot be marked.

Achievement Achievement with Merit Achievement with Excellence Demonstrating understanding of advanced concepts from computer science involves: Demonstrating in-depth understanding of advanced concepts from computer science involves: Demonstrating comprehensive understanding of advanced concepts from computer science
involves:□□describing ways in which different types of data can be represented using bits
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- describing ways in which different types of data can be represented using bits
- describing the concept of encoding information using compression coding, error control coding, and encryption; and typical uses of encoded information
- providing examples from human-computer interfaces that illustrate usability heuristics.

 —comparing and contrasting different ways in which different types of data can be represented using bits and discussing the implications
- comparing and contrasting different ways in which different types of data can be represented using bits and discussing the implications
- discussing how a widely used technology is enabled by one or more of compression coding, error control coding, and encryption
- evaluating a given human-computer interface in terms of usability heuristics. evaluating a widely used system for compression coding, error control coding, or encryption
- evaluating a widely used system for compression coding, error control coding, or encryption
- suggesting improvements to a given human-computer interface based on an evaluation in terms of usability heuristics. □ □

Appendix 1

Markers must exercise professional judgement to decide if a report demonstrates understanding. The following appendix provides guidance for markers making this judgement.

A report must use information to demonstrate understanding.

Reports described wholly or substantially by one or more of the statements in the left column demonstrate understanding.
Reports described wholly, or substantially, by one or more of the statements in the right column do not demonstrate understanding. Where the report is made up of both used and reproduced information, the marker must decide if the report is successful against the
standard when the reproduced information is ignored. □□ Evidence of use of information □ Evidence of reproduction of information □□ Candidate's report describes and explains the candidate's use, in their practice, of information relating to the standard. □ Information is presented in isolation from the candidate's Technological experiences. It offers nothing or little to suggest the information is related to a course of instruction at level 7. □□ Information from the candidate's practice, research, the practice of others, and teaching is related to the candidate's technological experiences.
□Where the report is made up of both used and reproduced information, the marker must decide if the report is successful against the standard when the reproduced information is
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The report describes experiences you would expect to come from a course of instruction derived from The Technology Learning area the NZC.
These could include but are not limited to:
testing and trialling within a modelling process
developing a conceptual statement
developing a conceptual design
 development of a brief
material selection
refinement of a brief
development of a prototype
development of a one-off solution.
Further examples may be added. \ \ \ \ \ \ \ \ \ \ \ \ \
□□Information from research, the practice of others, or teaching is reported in the candidate's own voice. □Information is not in the candidate's voice. The word choice, sentence structure, sentence length, punctuation, and so on are not what a candidate could be expected to produce. □ Referenced, complex research information unchanged by paraphrase is related to other information in a manner that unambiguously constructs meaning. (very rare) □ Unreferenced, complex, research information is presented as though it is the candidate's own work. □ Where the marker suspects a report is a deliberate attempt to deceive, the report should be referred to the panel leader using the Irregular Booklet process. □ □
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