CRITERION REFERENCE GRID (CRG) - Assessment 1 for CMP2067M Advanced Software Development

Learning Outcomes	Criteria	Fail	3rd	2:2	2:1	1st
[LO1] review concepts of advanced software development and programming methods (20%)	Quality of technical report: Introduction, Methods (Design – Pseudo code), Results, Research on Extensions (20%)	Introduction, Methods, Results, either missing or superficially treated.	Introduction is weak, design and pseudo code are ill-defined, results are not presented, and evaluation is not performed.	Introduction provides a good overview, basic design principles have been employed, pseudo code is representative of the program, and results are presented but not appropriately.	Introduction provides an accurate overview, design principles have been appropriately employed, pseudo code is well-formed, and results clearly illustrating the expected outputs are appropriately presented.	Meeting all previous requirements AND including (a) a lucid evaluation of the algorithms and (b) discussion on possible extensions.
[LO2] critically apply appropriate software development concepts (80%)	Design and implementation of basic and advanced C++ features (40%)	The code fails to compile/execute and/or it does not respond to the requirements of the brief and/or there is no evidence of C++ programming within the application.	Basic features of C++ including arrays, pointers, references memory allocation and management, passing arguments to functions by value/reference/pointers are included in the program.	Meeting previous requirements AND including basic OO features such as classes and objects being used along with principles of encapsulation.	Meeting previous requirements AND implementing advanced OO features including function overloading, copy constructors, operators and inheritance.	Meeting previous requirements AND implementing/ researching on more advanced OO features such as virtual functions/ polymorphism/advanced inheritance.

	Design and implementation of artefact that solves a problem. (40%)	No tasks have been attempted or solved.	An attempt to solve Task 1 has been made but the program executes with unexpected results.	The program produces the expected results for Task 1.	The program produces the expected results for Task 1 and an attempt to solve task 2 has been made.	The program produces the expected results for Task 1 and 2. Task 2 should be solved in at least 2 different ways.