# **Software Development 2011 Unit 3 – Outcome 2 (60 marks)**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Description**: **Represent a software design and apply a range of functions and techniques using a programming language to develop a prototype solution to meet a specific need.**

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| Criteria for assessment | Allocated Marks | | **Comments** |
| **Design of the software module** |  |  |  |
| Write a set of criteria for evaluating the efficiency and effectiveness of the solution. |  | / 5 |  |
| Data types and structures are accurately described using appropriate design methods: Data Dictionary and Data Structure Diagram |  | / 10 |  |
| Solution requirements are accurately and clearly represented in a detailed algorithm using pseudo-code. |  | / 5 |  |
| **Development of the software module** |  |  |  |
| **Manipulation -** The prototype solution is efficiently coded with all data types and data structures being appropriately used and integrated. |  | / 20 |  |
| **Documentation** - Internal documentation is complete, contains relevant program comments, and is clearly stated and well formatted. |  | / 5 |  |
| The solution meets specifications as stated in the SRS |  | / 10 |  |
| **Testing/Validation** - An appropriate range of test data is expressed in a testing table, with both expected and actual output stated. All tests are successfully applied to enable the performance of the prototype solution to be verified. |  | / 5 |  |
| **Total :** |  | **/ 60** |  |