**TMF1414 INTRODUCTION TO COMPUTING**

**ASSIGNMENT RUBRIC – 6% (PAIRWORK)**

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| **STUDENT MATRIC:** | **STUDENT NAME:** |  |

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| **CLO1 Distinguish the basic problem-solving techniques in developing algorithms and programs for given problems. [C4] - 1%** | | | | | | |
| **Criteria / Marking Scale** | **0** | **0.25** | **0.5** | **0.75** | **1** | **Given Mark** |
| Ability to analyse given problem and identify correct requirement | Unable to identify any correct input, process and output from a given problem | Able to identify partially correct input / process / output | Able to identify basic requirement for input, process and output from a given problem | Able to identify correctly all input, process and output from a given problem | Able to identify correctly all input, process and output from a given problem, and provide alternative | /1 |
| **TOTAL** | | | | | | **/1** |
| **CLO2 Construct complete programs based on a given specification. [P4] - 5%** | | | | | | |
| **Criteria / Marking Scale** | 0 | 0.25 | 0.5 | 0.75 | 1 |  |
| Ability to produce readable program – indentation, comments, variables | Unable to organize the code | The code is poorly organized and difficult to read | The code is readable only by a person who already knew the code purposes | The code is organized and easy to read | The code is well organized and easy to read | /1 |
| **Criteria / Marking Scale** | **0** | **0.5** | **1** | **1.5** | **2** |  |
| Ability to produce a correct programming code based on programming design | Unable to provide the programming source code | Able to produce a programming source code but did not aligned with flowchart and pseudocode | Able to produce a programming source code but partially aligned with flowchart or pseudocode | Able to produce a programming source code but almost aligned with flowchart or pseudocode | Able to produce a programming source code that aligned with flowchart and pseudocode | /2 |
| **Criteria / Marking Scale** | 0 | **0.5** | **1** | **1.5** | **2** |  |
| Ability to run/debug | Unable to run the program (syntax error) | Able to run the program but no results produced | Able to run the program successfully but produced wrong results | Able to run the program successfully with partially correct results | Able to run the program successfully with correct results | /2 |
| **TOTAL** | | | | | | **/5** |
| **CLO3 Construct the process of top-down, stepwise refinement to benefit all related software construction task. [P4] – 4%** | | | | | | |
| **Criteria / Marking Scale** | **0** | **0.5** | **1** | **1.5** | **2** |  |
| Ability to demonstrate good design solution - flowchart | Unable to construct the flowchart design | Able to construct flowchart design but did many mistakes on symbols and flows | Able to construct the flowchart design correctly with acceptable logic solution | Able to construct logical and correct flowchart design but did not aligned with pseudocode | Able to construct logical and correct flowchart design, and align with pseudocode | /2 |
| **Criteria / Marking Scale** | **0** | **0.5** | **1** | **1.5** | **2** |  |
| Ability to demonstrate good design solution - pseudocode | Unable to construct the pseudocode design | Able to construct the pseudocode design but did many mistakes on the flows | Able to construct the pseudocode design correctly with acceptable logic solution | Able to construct logical and correct pseudocode design but did not aligned with flowchart | Able to construct correctly the flowchart and align with pseudocode | /2 |
| **TOTAL** | | | | | | **/4** |