**Assessment Rubric**

Name(s): Programme: Group: Date:

**Program Development and Final Report (75%)**

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| **No** | **Item** | **Criteria** | | | **Final Marks** |
| **Poor** | **Accomplished** | **Good** |
| 1 | Problem statement (10) | No or very little discussion on existing problem and the project The proposed project already exists, or with very minor change. No discussion or very little of introduction given to the related system or technology.  0-4 | Little discussion on existing problem and introduction of proposed project. Minor ideas are modified from existing system(s). Introduction to the related system is given, but no evaluation provided.  5-7 | Good discussion and evaluation of existing problem and the proposed project. Ideas modified from existing system, with some creative ideas are added. Good discussion and evaluation of the related system.  8-10 |  |
| 2 | Programming (20) | The end product fails with many logic errors, many actions lacked exception handling. Solutions are over-simplified. Programming skill needs improvement.  Minimal validations are provided. Business rules are not validated.  0-8 | Major parts are logical, but some steps to complete a specific job may be tedious or unnecessarily complicated. Program algorithm demonstrates acceptable level of complexity. The student is qualified to be a programmer  Important and necessary validations are provided.  9-15 | Correct and logical flow, exceptions are handled well. Demonstrates appropriate or high level of complex algorithms and programming skills.  Thorough and thoughtful validations are provided. All important business rules are validated.  16-20 |  |
| 3 | degree of completion  (10) | Too much still remain to be done. Basic  requirements are not fulfilled.  The end product produces enormous errors, faults or incorrect results.  0-4 | All required features present in the interface  within the required scope, but some are simplified. Or one or two features are missing. The system is able to run with minor errors.  5-7 | All required features present in the interface  within or beyond the required scope.  No bugs apparent during demonstration.  8-10 |  |
| 4 | system implementation  (10) | The end product is produced with different  system design or approach, which is not related to the initial proposal.  0-4 | The end product conforms to most of the  system design, but some are different from the specification.  5-7 | The end product fully conforms to the  proposed system design.  8-10 |  |
| 5 | Results  (Performance measurement) (10) | Analytical methods were missing  or inappropriately aligned with data and research design. Results were confusing.  0-4 | The analytical methods were  identified. Results were presented. All were related to the research question and design. Sufficient metric or measurement is applied.  5-7 | Analytical methods and results  presentation were sufficient, specific, clear, structured and appropriate based on the research questions and research design. Extra metric or measurement is applied.  8-10 |  |

**Appendix 2**

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| **No** | **Item** | **Criteria** | | | **Final Marks** |
| **Poor** | **Accomplished** | **Good** |
| 6 | Discussion and  Conclusion  (10) | Little discussions were  presented. Answers to the research question and system performance were unclear or confusing.  3-4 | Discussions of the results were  presented. The research question and system performance were answered and identified.  5-7 | The significance of the results of the work  was discussed, sufficiently inclusive of the information that concluded and answered the research question and system performance is evaluated comprehensively. Limitations and future improvements of the studies were identified.  8-10 |  |
| 7 | Organization  (5) | The structure of the paper was  weak. Transition was weak and difficult to understand.  0-2 | A workable structure was  presented for presenting ideas. Transition was smooth and clear.  3-4 | Structure was intuitive and sufficiently  inclusive of important information of the research. Transition from one to another was smooth and organized.  5 |  |
| Sum of Score | | | | |  |

**Presentation (25%)**

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| **No** | **Item** | **Criteria** | | | **Final Marks** |
| **Poor** | **Accomplished** | **Good** |
| 1 | Output (10) | Inadequate information/outputs needed are  generated.  Most of the information/outputs generated are less accurate.  Results visualization is overly cluttered or the design seems inappropriate for problem area.  Lack of information that are  useful for the user  0-4 | Adequate information/outputs needed are  generated.  The information/output generated are accurate but some with errors.  Pleasant looking, clean, well-organized results visualization  The information displayed are useful for the user, but some details are  omitted.  5-7 | All the necessary information/outputs are  generated.  All or most of the information/outputs generated are accurate. Minor errors can be ignored.  The results are visually pleasing and appealing.  Great use of colors, fonts, graphics and layout.  The information displayed are useful to the users and complete with necessary details.  8-10 |  |
| 2 | Presentation  (10) | Presentation was unclear.  Results were presented without justifications and reasons.  Results were not supported with ML concepts and theories.  0-4 | Presentation is well organized for the most part, but more clarity with transitions is needed.  Answers to the research question and system performances were supported with sufficient ML concepts and theories.  5-7 | Presentation was concise and straight to the points.  Discussions of the results were presented and illustrated in easily interpretable graphs or charts.  The research question and system performance were answered and identified.  8-10 |  |
| 3 | Question and answer (5) | The student is unclear about the work produced, sometimes not even knowing  where to find the source code.  0-1 | The student knows the code whereabouts, but sometimes may not be clear why the work  was done in such a way.  2-3 | The student is clear about every piece of the work done.  4-5 |  |
| Sum of Score | | | | |  |