**Feedback Given by the Panel Member**

( / ) Research Proposal Defense ( ) Research Final Defense

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| Name of the Candidate | Mr. Rolito Remolador |
| Program | BSC -CS |
| Date and time: | August 14, 2021 | 1:00 p.m. |
| Venue | MS Teams |
| Research Adviser: | Prof. Julius Sareno |
| Research Title: | Development of Petrographic Thin Section Analyzing System Using Machine Learning |

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| Panel Member | Comments/ Remarks |
| **Prof. Fernando Renegado** | Focus on:   * Deep learning algorithms, machine learning   + https://courses.cs.duke.edu/spring20/compsci527/papers/Pouyanfar.pdf   + https://ieeexplore.ieee.org/abstract/document/8694781 * Thin layer section * Image from polarizing microscope |
| Prof. May M. Garcia | * Table of Contents – follow latest thesis format of the CS Dept observe appropriate citation <https://apastyle.apa.org/style-grammar-guidelines/citations/basic-principles> * Comments were listed in the manuscript      * if possible, please include the long process of rock classification mention testing criteria based on ISO25010 * Reliability: show a comparison table include manual and ML classification * include the ML algorithm to be used to analyze rock classification * Please offer a detailed overview of the scope, including what the machine learning result is. |
| **Prof. Elanie Vizconde** | * A motivational message was shared. |
| **Dr. Wellanie Molino** | * The presentation is overwhelming. * Instrument/ devices used * Focus on rock classification, include in the delimitation of the study * Image segmentation – identify the algorithm to be used * Along with the algorithms, there is also statistics * Determine the predictive label's output and include it in the operational definition of terms. * Specific objective, enumerate important features of the system with corresponding interrelation. * Also include technologies to be used in the project like Phyton. * Please check on what test is used. ISO 25010 and TUP Evaluation? Are you testing the accuracy or validity? * Confusion Matrix , performance measuring tool to check the accuracy of analytical model– include in your Chapter 3 of your manuscript. * Kindly include the following: types of rock, rock sample, number of images to be captured, what forms in terms of RGB optical magnification, dimension and minimum requirement to identify the sample - include these in your chapter 3 * Actual results from geologist and your result in tabular form for comparison |
| **Prof. Julius Sareno** | * **Inspiring message was given** |
| **Improved:** Development of an Analytical Model for Petrographic Thin Section Analysis  Please take note of the following:  Delete the program flow use UML class diagram instead  All terms should be discussed in Chapter 2  Please use the college's research technical format. | |
| The Research Topic Defense recorded meeting can be accessed via the following link:  [https://tupmla.sharepoint.com/sites/ETEEAPRESEARCHDEFENSE/Shared%20Documents/General/Recordings/Meeting%20in%20\_General\_-20210814\_130935-Meeting%20Recording.mp4?web=1](https://tupmla.sharepoint.com/sites/ETEEAPRESEARCHDEFENSE/Shared Documents/General/Recordings/Meeting in _General_-20210814_130935-Meeting Recording.mp4?web=1) | |

Notes: Submit the Revision Matrix with the revised copy of manuscript.