

WEST VISAYAS STATE UNIVERSITY
COLLEGE OF EDUCATION
GRADUATE SCHOOL
Iloilo City

EVALUATION AND ENHANCEMENT OF INSTRUCTIONAL MODULE IN PEOPLE
AND THE EARTH'S ECOSYSTEM

A Dissertation Presented to the
Faculty of the Graduate School
College of Education
West Visayas State University
La Paz, Iloilo City

In Partial Fulfilment
of the Requirements for the Degree
Doctor of Philosophy in Science Education
(Biology)

by

Mae B. Angeles

April 2024

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Angeles, Mae B. *"Evaluation and Enhancement of Instructional Module in People and the Earth's Ecosystem"*. Unpublished Dissertation, Doctor of Philosophy in Science Education (Biology), College of Education Graduate School, West Visayas State University, Iloilo City, April, 2024.

Abstract

This study evaluated and enhanced an instructional module on People and the Earth's Ecosystem using the CIPP model. Data were collected from BSED students, science teachers, and expert validators. Descriptive statistics, mean, standard deviation, and t-test for dependent samples were used for analysis. The study revealed that students had "Failure, Passing, Very Satisfactory and Satisfactory" conceptual understanding and "Failure" critical thinking skills prior to the use of enhanced module. Poor understanding and thinking skills could negatively impact grades and performance. Although, experts' feedback tells that, the module needs revisions in content organization, clarity, presentation, and visual aids. Clearer instructions and objectives were also necessary for effective guidance. After reviewing the module in general is "very acceptable" meaning the enhanced module has met expectations. They found the enhancements satisfactory and believed the module aligns with learning outcomes, suggesting its effectiveness in the classroom. Using the enhanced module, students demonstrated a "Very Good and Highly Outstanding" level of conceptual understanding and " Good and Very Good" critical thinking skills. This indicated successful facilitation of complex concept understanding and skill development. The changes made in the module positively impacted student learning outcomes. The effective strategies employed in

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this module can be replicated in other modules for similar success. Given its effectiveness, the enhanced module is likely to be recommended for use in other classes or schools offering this subject. Overall, the study showed the importance of evaluating and enhancing instructional modules in improving students' understanding and critical thinking skills. The findings provide valuable insights for module developers and educators aiming to enhance the learning experience.

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