



SOFTWARE-BASED EDUCATIONAL LEARNING MATERIALS IN THERMODYNAMICS

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ABSTRACT

This study aimed to determine the acceptability of the developed Software-Based Educational Learning Material in Thermodynamics. The research involved respondents from the University of Rizal System-Morong Campus composed of Science Education Major Students, Physics Instructors, and IT experts. The study employed a developmental-descriptive design where qualitative discussion and mean of central tendency were used in this study. It also utilized a questionnaire checklist as the instrument to gather the necessary data needed for the study. Results of the analysis revealed that the developed Software- Based Educational Learning Materials have excellently met the standards, and no major revision is needed as reflected in the evaluation by the students, teachers, and experts. The content, objectives, language and style, organization and presentation, usefulness, accuracy, applicability, user-friendliness, workability, completeness, and portability are very much accepted by the intended users. Findings based on the study recommended that the developed Software-Based Educational Learning Materials can be used by the teachers and students in the teaching and learning process in Thermodynamics, specifically in Entropy and Otto Cycle.

Keywords: Thermodynamics, Acceptability, Learning Materials, Entropy and Otto Cycle