Quantitative Insights: Unveiling the Interplay Between Mathematics and Physics in College Education

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Abstract: This study investigates the intricate interplay between mathematics and physics in college education. Through a mixed-methods approach involving surveys, interviews, and classroom observations, the research delves into students' perceptions, instructional challenges, and effective pedagogical strategies. The findings reveal that while many students recognize the relationship between the disciplines, challenges persist in bridging mathematical concepts with physics principles. Instructors employ interactive simulations and inquiry-based methods to address these challenges. The study's insights hold implications for curriculum development and teaching practices, aiming to enhance the integration of mathematics and physics education and provide a more enriched learning experience for students.

Keywords: Quantitative Insights, Mathematics and Physics, College Education

REFERENCES