



Contribution ID: 231 Contribution code: S1 Physics Innovation

Type: Oral Presentation

Using a pre-instruction math test to predict first-year physics exam results

Thursday 23 June 2022 11:30 (15 minutes)

We investigated the results of pre-instruction mathematics test and introductory physics exams of two groups of first-year engineering students at Suranaree University of Technology. We intend to examine the test results to identify factors that predict exam results in the first-year physics course. The first and the second groups took their physics classes in the first and second trimester of the academic year 2020 respectively. Here, we report our analysis of the pre-instruction math tests and claim that they meet reasonable standards for reliability and validity. As a by-product of this investigation, we found that there was no gender gap in the math test results.

Authors: POPANAO, Meta; SMITH, Michael (Suranaree Institute of Technology); PAIROR, Puangratana (School of Physics, Institute of Science, Suranaree University of Technology)

Presenter: POPANAO, Meta

Session Classification: S1 Physics Innovation

Track Classification: Physics Innovation