

Psychometric Properties of the Attitudes Scale towards Electronic Tests among Graduate Students

Abstract:

The current study aimed at identifying the Psychometric Properties of attitudes scale towards electronic tests among graduate students, the researchers briefly explained various electronic test types used to assess students' achievement. The study's significance lied in providing a valid and reliable scale, as well as demonstrating the appropriateness of electronic tests whether they meet the aims of distance education or not. Thus, universities can develop the tests' quality and improve them. The sample of the study consisted of (690) students (male and female) of the Amman Arab University. A scale of (56) items was built for the study. Different procedures were done to assure the validity of the scale such as Exploratory factor analysis, construct validity, and discriminatory validity, as for the reliability Cronbach's Alpha, Split Half, Standard Error of Estimate, and Hoyt equation were used. All these indications showed appropriate and reasonable results for the scale. The arithmetic means and standard deviations of students' attitudes towards electronic tests were calculated. The statistical results showed that the attitude scale has acceptable psychometric properties, as students had positive ones. It also showed statistical differences in students' attitudes attributed to gender in favor of female students due to their personal circumstances. However, there were no statistical differences found attributed to faculty or to the interaction between faculty and gender. The general results of this scale could encourage other researchers to implement it on various universities in different countries and to integrate technology with traditional teaching in their coming courses.

Keywords: Psychometric Properties, Attitudes towards Electronic Tests, Assessment

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