THE VALIDITY AND RELIABILITY STUDIES OF THE SCHOOL ADMINISTRATORS’ AND TEACHERS’ VIEWS ON EDUCATIONAL TECHNOLOGIES (VOET) SCALE

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Abstract
This study aims to develop a measurement tool that will enable the determination of school administrators' and teachers' opinions on educational technologies. The items prepared by scanning the literature were presented to the opinions of the experts. Following the opinions, the 51-item trial form was applied to a total of 406 administrators and teachers, 249 women and 157 men working in the project high schools in the central and districts of Izmir in the 2018-2019 spring term for pre-application. The results of the factor analysis showed that the scale had four factors explaining 55.64% of the total variance. The last application was performed with a total of 636 administrators and teachers, including 385 women and 251 men, and the construct validity of the measurement tool was reevaluated. Exploratory factor analysis was applied, and it was deemed appropriate to continue the analysis with 37 variables and six factors consisting of these variables. It was determined that the six factors obtained explained 60.17% of the total variance. The determined factors are; "Concerns about educational technologies", "opinions about the contribution of educational technologies to education", "opinions about the concept of educational technologies", "criticisms about educational technologies", "benefits related to the use of educational technologies in educational environments" and "opinions about the scope of educational technologies". As a result of the confirmatory factor analysis performed with the data set, it seems that the ratio of the scale's Chi-square Test (χ²) to degrees of freedom (X²/df) is 4.1; GFI, .88; CFI, .95; NFI, .95; NNFI, .95; IFI, .95; RMSEA, .08; and SRMR, .05. Considering the suggested values in the literature, it is seen that GFI is slightly below the limit, RMSEA and X²/df are acceptable, while other fit indices are excellent. Since the fit indexes should be evaluated as a whole, the scale can be said to have a good structure. Cronbach Alpha internal consistency coefficient of the scale whose reliability studies were completed was determined as α=.89.

Keywords: Educational technologies, project schools, manager, teacher, validity and reliability.