

Abstract:

Hierarchical Structure of the Mental Motivation Scale of University Students

The current study aimed to identify the validity of the hierarchical structure of the mental motivation scale for university students in the Egyptian environment, using both exploratory factor analysis and empirical factor analysis first level and direct hierarchical analysis (second order) on the data of the California scale of mental motivation, as well as knowing the effect of the interaction between Type and specialization in the degree of mental motivation of university students for the study sample, which included 350 students from the university students (88% female). The results of exploratory factor analysis showed that there are five factor components of mental motivation, Mental Focus † Learning Orientation † Creative Problems Solving † Cognitive Integrity † Technological Orientation, and empirical and empirical data was used. The results of the analysis confirmed that the five-year model The second order (direct hierarchical model) is identical to the model of exploratory factor analysis results, which supports that mental motivation consists of five sub-components that are saturated on one factor. The results also showed that there is no statistically significant effect of the interaction between type and specialization in the levels of mental motivation and all components except component Solving problems creatively, and there are statistically significant differences between males and females in the mental motivation in favor of males, and there are differences between students scientific specialization and literary specialization in favor of scientific specialization.

Key words: factor components, mental motivation, factor analysis, confirmatory analysis, hierarchical structure, critical thinking.