INVARINANCE OF FACTOR STRUCTURE TO SURVEY ATTITUDES TOWARD STATISTICS (SATS-36) BY ADMINISTRATION TIME OF SCALE

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Abstract_ This study aimed to verify Invariance of factor structure to survey attitudes toward statistics (SATS-36) by administration time of scale before and after study statistics course, as well as verification of Invariance semantics consistency of scale depending on the time of application, has been applied to the scale on a sample of (480) students. Where detection using factor analysis (Principle Axis Factoring), followed by (Varimax Rotation) that the scale consists of six dimensions: (effect, competence, value, difficulty, interest, effort) has saturated all items (36) on six factors according to the Gotmans standard, the results showed that there was no change in factor structure of scale due to the time of its application before learning of statistics and after learning, as there is no change in the number of items of scale due to the same variable (administration time of scale), and the results showed that it is no different stability depending on the time scale applied before and after statistics study. Positive related and statistically significant are found between all factors with the total score of the scale and between factors them self.

Keywords: Statistics, Attitudes, Factors, Reliability, Survey Attitudes.