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BARON AND KENNY'S APPROACH FOR TESTING THE MEDIATION EFFECT USING STRUCTURAL EQUATION MODELING (SEM)

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The present research paper examines Baron and Kenny's approach for testing the mediation effect using structural equation modeling (SEM). Structural equation modeling (SEM) is a statistical modeling technique for examining multivariate data with intricate interactions between and across variables and enables the simultaneous solution of systems of linear equations. In the present study, 391 students were surveyed from different training centres by using a structured questionnaire as a primary data collection method. The main objective of the research study is to develop a student engagement (SE) model with a mediating effect by using structural equation modeling as explained by Baron and Kenny's mediating method. Finding of the research paper suggested existence of a mediation effect of various independent variable on students' engagement.

1. Introduction

Structural Equation Modeling (SEM) analyzes relationships between latent variables by integrating factor analysis for measurement and path analysis for structural relationships, allowing for the assessment of direct and indirect effects, model fit, and the significance of these relationships within a composite system [14]. Structural Equation Modeling is widely used to test theories and evaluate causal relationships in psychological studies [8]. Structural Equation Modeling is increasingly applied to analyze complex genetic traits, modeling

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