Thesis Title	A Study of Factors Affecting to Learning Achievement of Basic Machine Tool for Vocation Student Case Study of North Vocational Institute 4 and Southern Vocational Institute 1
Thesis Credits	12
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Abstract

This research study investigated the factors that affected students' learning achievement in studying the course "Basic Machine Tools" for Vocational Students in the North of Vocational Institute 4 and Southern Vocational Institute 1. Participants were 518 students derived by using stratified random sampling technique. A questionnaire was distributed the students. Data analysis employed frequency, percentage, means, standard deviation, including Stepwise Regression. Findings revealed that grade point average (GPA) could be used to forecast learning achievement for 47.10 percent with significantly different at the level of .05 for North of Vocational Institute 4 and regression model is FRA = 3.485 + .676GPA. Moreover, factors of student, parent's income, GPA, parent's education, student's relationship, sibling, and gender could be used to forecast learning achievement for 67.30 percent with significantly different at the level of .05 for Southern Vocational Institute 1 and regression model is FRA = .031 + 1.298FAS +.977SLP + .710 GPA + .522 EDU - 1.157SEX - .407FAC -.376ABB. Analysis of variance to compare the effects of these two sectors are not different. Statistically significant at the level .05