

Thesis Title	Factors that Affected the Achievement on Mathematics for Computer Study of the Student at Upper Northeastern United Rajabhat Institute.
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### Abstract

The objective of this research were to study the primary data of the variables which affected the achievement of Mathematics for Computer, to compare the achievements classified by different independent variables, and to formulate regression equation or predicting equation for students' achievement on Mathematics for Computer.

The population used in this study consists of 258 Computer students from Upper Northeastern United Rajabhat Institutes who studied Mathematics for Computer in the second semester of academic year 1997. The data were analysed by using SPSS/PC<sup>+</sup> to obtained statistical values, by means of Cronbach's Alpha Coefficient, t-test, F-test and multiple regression analysis.

The research results were as follows:

1. The variable of general status that affected the students' Mathematics for Computer achievement were period and the students' expense per month.

2. The score of basic knowledge that affect the students' achievement were Mathematics, English, Science and Thai.

3. The independent variables or predicting variables that had been chosen as part of regression equation or predicting equation were the following six variables chosen according to priority of significance:

Mathematics ( $X_{17}$ ), Science ( $X_{18}$ ), English ( $X_{16}$ ), Time of study period ( $X_4$ ), Thai ( $X_{20}$ ) and expense per month ( $X_{11}$ ) ; the attitude toward Mathematics and the regression equation or predicting equation row score for the students' achievement of Mathematics for computer study was

$$Y = 3.497 + .105 X_{17} + .112 X_{18} + 9.7-02 X_{16} + 1.147 X_4 + 8.5 -02 X_{20} + .453 X_{11}$$

The regression equation or predicting equation standard score for the students' achievement of Mathematics for computer study was

$$Y = 2.72 X_{17} + 0.221 X_{18} + .167 X_{16} + .170 X_4 + 1.41 X_{20} + .118 X_{11}$$

Keywords : Upper Northeastern United Rajabhat Institutes / The regression equation or predicting equation