

## Abstract

Research Title: The Development of Teaching model by MIAP Process on Theory of Probability and Statistics for Students, major in Mathematics, Suan Sunandha Rajabhat University.

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The purposes of the development of teaching model by MIAP process on Theory of Probability and Statistics for students, major in Mathematics, Suan Sunandha Rajabhat University. The objectives of this study were to develop a teaching model with MIAP process, to compare the learning achievement and level of satisfaction of a group of students who learn with MIAP process and a group of students who learned without MIAP process.

The sample used in this research included students, whose major was Mathematics, Faculty of Education, Suan Sunandha Rajabhat University, who were registered to study the Theory of Probability and Statistics, semester 1, education year of 2013. Purposive sampling was utilized. Students were separated into two groups by using simple random sampling. The first group was the experimental group with a total of 27 students and the second group was the control group with 21 students.

A questionnaire was utilized to collect students' opinion about the teaching method. Moreover, the basic test of statistics knowledge, mathematic questions, learning test, and satisfaction survey were used to collect data from students. The statistics used in the research include percentage, mean, standard deviation, and t-test.

The findings revealed that

1. Model of teaching with MIAP consisted of four steps: 1) data analysis 2) preparation with the process of MIAP 3) teaching with MIAP and 4) evaluate the teaching performance. The teaching with MIAP allows students to practice application A

with exercises in CAI and after which there was an evaluation in every part of material.

Most experts agree that model of teaching is suitable for students.

2. The learning achievement of the experimental group of students with MIAP process was higher than the control group of students without MIAP process and it was significant at the level of 0.05.

3. The level of satisfaction for both groups was not difference at the level of 0.05.

Keywords: Model of Teaching , MIAP process and Theory of Probability and Statistics