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| Research Title | The efficiency of facilitating student-centered learning for a large group of students in the subject of Thinking and Decision Making under the theme “Data and Data Analysis” |
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The study on the efficiency of facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis” is an action research using the “One-Group Pretest Posttest Design.” The purpose of this research is to study the efficiency of facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis” using CIPPA Model and Project Base learning plan, and to study student learning achievement and satisfaction of facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis”. The research sample is the group of 330 undergraduate students in regular program from Suan Dusit Rajabhat University who registered for the subject of thinking and deciding, 1st semester 2010. In this research, the tests used to measure students’ academic achievement are the pretest and the posttest, and also the questionnaire about the students’ satisfaction towards student-centered learning. In facilitating self-learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis,” four aspects are considered: the process of facilitating students’ learning, the content of learning, the materials for facilitating students’ learning and the teachers/ instructors. Also, additional comments/ suggestions about teaching method for a large group of students are counted.

According to the results of the research, it is found out that:

1. The efficiency of facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis” in the stage of single experiment (1 : 1) equals 81.67/80.00, the stage of group experiment (1 : 10) equals 82.22/81.11 and the stage of field experiment (1 : 100) equals 82.50/84.50, which pass the standard assessment, that is 80/80 in all experiments.

2. In terms of academic achievement from facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis,” it is found out that the scores of the sample group after studying is higher than before studying with the statistical significance of .01. In other words, the students gain higher academic achievement from facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis.”

3. The students’ satisfaction towards facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis” is, overall, in the high level. When considering each aspect, students are most pleased with the teachers/ instructors, the content of learning, the process of facilitating students’ learning and the materials for facilitating students’ learning respectively. Moreover, the students’ satisfaction is high in every aspect.

4. The students’ comments and suggestions about facilitating student-centered learning for a large group of students in the subject of thinking and deciding under the theme “Data and Data Analysis” are as follow respectively: the way of facilitating students’ self-learning is very interesting and this method should be applied in every subject. The content is modern and exciting, and it encourages students to think, analyze and solve the problems themselves. The teachers/ instructors have excellent understanding of the content and they give very good instructions. The way of facilitating students’ learning is appropriate and easy to understand. In addition, there should be various activities during studying, which focus on students’ first-hand experience. Outdoor activities to enhance learning experience are recommended as well. There should also be activities that stimulate students’ eagerness to learn more. Finally, the activities during studying are really fun and more time should be allowed for them.