

Thesis	Development of Tutorial Computer Assisted Instruction on Database Systems Entitled Database Model for Master Degree Students of Faculty of Industrial Education King Mongkut's Institute of Technology Ladkrabang
Student	Miss. Supranee Dontalek
Student ID	47065536
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Thesis Advisor	Assistant Professor Dr. Wilaiporn Worrachittanont
Thesis Co-advisor	Assistant Professor Dr. Rawiwan Tenissara

ABSTRACT

Purposes of this research were to develop the efficient Computer Assisted Instruction and to compare the achievement prior and after learning by using the developed Computer Assisted Instruction for Tutorial on Database Systems entitled Database Model for Master Degree Students of Industrial Education, King Mongkut's Institute of Technology Ladkrabang.

The Sample consisted of 14 Master degree students who voluntarily participated in the study during the second semester, the academic year of 2005, and used to learn Database Systems subject entitled Database Model.

Research instruments were the Database Systems Computer Assisted Instruction in Database Model and the achievement test. The achievement test comprised 20 items possessing the degree of difficulty ranging from 0.21 – 0.79, the degree of discrimination between 0.00 - 0.57 and the reliability coefficient of 0.68

To examine the efficiency of the Computer Assisted Instruction, not less than 80/80 standard criterion was used. The t-test for Dependent Samples was also employed to compare the students' achievement prior and after learning by using the Computer Assisted Instruction.

The results of the research revealed that :

1. The efficiency of the Computer Assisted Instruction was 82.14/83.93, which reached the standard criterion.

2. The achievement in Database Model of students after using the Computer Assisted Instruction was statistically significantly higher than that of the students prior to using the Computer Assisted Instruction at 0.01 level.