

Thesis	Synthesis of Web Based Instruction Theses of Faculty of Industrial Education King Mongkut's Institute of Technology Ladkrabang using Meta - Analysis
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ABSTRACT

The purpose of this study was to synthesize 36 theses on Web Based Instruction of master degree graduates in Science Education, Faculty of Industrial Education King Mongkut's Institute of Technology Ladkrabang during 2001 to December 2006. The research instrument was a research data collection form developed by the researcher. The findings of the study were as follows:

1. Classifying by research characteristics of theses on Web Based Instruction, in print characteristic, a large number of theses were printed in 2005. In the aspect of content, a large number of theses on Web Based Instruction had 3 objectives, all of them had one objective in common which was to develop Web Based Instruction, there was only one independent variable and one dependent variable, while the dependent variable was the efficiency of the Web Based Instruction. The objective of using Web Based Instruction was for tutorial. Besides, most of Web Based Instruction programs had been developed in the area of Computer for Higher Vocational Certificate students, most of Web Based Instruction had the following buttons namely; Home, Lesson, Test, Chat-room, Web-board, and Contact. Classifying by research methodology, most of the studies had 30 students in field study which were selected by cluster random sampling technique. The research instrument was a learning achievement test. The quality of the data collection instrument were the validity coefficient, the degree of difficulty, and the degree of discrimination with the average values between 0.66 – 1.00, 0.28 – 0.76, and 0.24 – 0.70 respectively. The mean score of reliability coefficient was 0.82. Descriptive statistics employed were frequency (percentage), mean, standard deviation, and percentage mean. Statistic in

analyzing data was t – test for Dependent Samples. The average of the efficiency of Web Based Instruction on process / output ($E1 / E2$) = $82.38 / 82.86$, most of the studies reached the standard criteria.

2. The average of the effect size of the experiment in pretest and posttest design was 4.20.