

Thesis Title	The Development and Investigation on the Effects of Distance Learning via Internet in the Course of Digital Technique of Students with Different Learning Achievement
Thesis Credits	6
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#### Abstract

The purpose of this research was to develop a material for distance learning via the internet in the Digital Technique Course, and to compare the results of learning achievement of students who have different level of learning achievement by means of the asynchronous approach. Research Instruments include : 1) distance learning modules via internet 2) an achievement test 3) a questionnaire to explore students' satisfaction on the modules provided. The sample groups were 128 fourth year students of vocational education who studied in the field of Electronics, Electronics-Communication and Computer Techniques at Rajamangala Institute of Technology, Khon Kaen campus and Sakon-Nakhon campus. they were divided into three groups of 24 high, 64 medium and 40 low level of learning achievement based on their pre-test scores and GPA of four courses in their field of study. A post-test was given to the subjects after they had finished the modules. The data were analyzed by MANOVA Repeat Measure and Scheffe Tests. by SPSS 10.0 for Windows program.

It was found that the means of post-test score was higher than that of the pre-test with statistical significance at  $p < 0.05$ . There was no interaction between groups of students and gain score. Gain score of three groups increased with significant difference.

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It was also found that most of the students were satisfied with the modules at much level. They felt free using the modules provided. Those who mastered the computer and internet skills were able to learn faster and more effectively.

Keywords : Distance Learning/Distance Learning via Internet/e-learning /Simulation/  
Web-Based Learning/Web-Based Instruction/Digital Technique