

Nutthakritta Sirisophon, Major. 2013: The Development of Web-based Instruction Model under Constructionism for Critical Thinking Development. Doctor of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Saroch Sopeerak, Ed.D. 219 pages.

The purposes of this research were: 1) to development the Web-based Instruction model using the constructionism approach for critical thinking development of undergraduate students 2) to compare critical thinking score between before and after learning via the Web-based Instruction, and 3) to study the student satisfaction toward the Web-based Instruction that constructed by researcher.

The population were 60 students who enrolled in the Personal and Community Health first semester of 2012 academic year, Faculty of Education, Kasetsart University. The sample in this experimental research were 28 students selected by simple random sampling. Data were analyzed by mean, standard deviation, and Dependent Samples t-test.

Results of the research were shown as follows: the Web-based Instruction model using for critical thinking development, the constructionism approach should be included of 10 phases : 1) Critical preparation, 2) Review the issue, 3) Elaborate learning, 4) Arranging data, 5) Thinking and diagnosing, 6) Interpersonal communication, 7) Verify the solution, 8) implementation, 9) Transfer of innovations, and 10) Yielding evaluation. It was found that after learning from the Web-based Instruction the student's critical thinking score was higher than before learning at .01 level of significance. The student's satisfaction toward the Web-based Instruction were at the high level.

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Student's signature

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Thesis Advisor's signature