

Uthit Bamroongcheep, Acting Sub Lt. 2008: The Web-based Instruction Model Using the Constructionism for Creative Thinking Development. Doctor of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Saroch Sopeerak, Ed.D. 470 pages.

The purposes of this research were : 1) to construct the Web-based Instruction model using the constructionism approach for creative thinking development of undergraduate students, 2) to compare creative thinking score between before and after learning via the Web-based Instruction, 3) to compare the pre-test and the post-test learning achievement score, and 4) to study the students satisfaction toward the Web-based Instruction that constructed by researcher.

There were 2 groups of populations. The first group consisted of 10 educational technologist experts, selected by the purposive sampling technique. The second group were 280 students who enrolled in the ET312 Self Instructional Media course, second semester of 2007 academic year, Faculty of Education, Srinakarinwirot University. The subjects for the experiment phases was 30 students who were selected by simple random sampling. Data were analyzed using mean, standard deviation, and dependent samples t-test .

Results of the research were shown as follows : of the Web-based Instruction model using for creative thinking development the constructionism approach should be included of 9 phases : 1) preparation, 2) searching 3) data collection 4) brainstorming/discussion 5) implementation 6) reflection and revision 7) evaluation 8) presentation, and 9) knowledge distribution. The efficiency of the Web-based Instruction model using the constructionism approach was 84.55/85.50 which follows the criteria. It was found that the post-test score was higher than the pre-test score at .01 level of significance. After learning from the Web-based Instruction the students creative thinking score was higher than before learning at .01 level of significance. The subjects satisfaction toward the constructed Web-based Instruction was at "high" level.

Student's signature

Thesis Advisor's signature

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