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Author : _____
Degree : _____
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Advisors : _____

Year : _____

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ABSTRACT

Keywords :** _____

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Example of Abstract

Title : The Development of a Model of Collaborative Problem-Based Learning with Mentoring System via Computer Network
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Year : 2015

ABSTRACT

The objectives of this research were to 1) synthesize the model of collaborative problem-based learning with mentoring system via computer network or CPBL-M model, 2) develop the computer instruction for CPBL-M model, 3) compare the effectiveness of the computer instruction for CPBL-M model, 4) compare the achievement of the students who learned with the computer instruction for CPBL-M model and the ones who learned with traditional teaching method and 5) survey the satisfaction of students with the computer instruction for CPBL-M model. The research methodology consisted of 2 steps: the synthesis of CPBL-M model by using Delphi technique, and the development of the computer instruction for CPBL-M model by using ADDIE model. The research instruments consisted of questionnaire, quiz and computer instruction. The samples used for model evaluation were divided into 2 groups: 4 sub-groups of 40 experts and 2 sub-groups of 60 students; the control group, and the experimental group.

The research results indicated that the CPBL-M model was comprised of the core component and the mechanical work. The core component consisted of 7 modules including problem-based learning module, collaborative learning module, mentoring module, assessment module, knowledge-based module, student module, coaching module and communication module. The mechanical work consisted of mechanism of problem-based learning, mechanism of collaborative learning, mentoring mechanism, role of teacher, role of student, learning assessment, supporting tools and monitoring of behavioral students. The average opinion of the

experts on the synthesis of CBPL-M model was very high ($\bar{X} = 4.82$, S.D. = 0.45). The result of the developed the computer instruction for CPBL-M model revealed that the effectiveness of the computer instruction was higher than the average standard of Meguigans (1.50). The opinions of the experts with computer instruction for CBPL-M model was high ($\bar{X} = 4.35$, S.D. = 0.40). The learning achievement of the students who studied with the computer instruction for CPBL-M model was significantly higher than those studied with the traditional teaching method. The average level of the satisfaction of the students with the computer instruction for CPBL-M was high. The regarding comparison of learning achievement it showed that the average score of students who studied with the computer instruction for CPBL-M model was significantly higher than those studied with the teaching traditional method at the .01 level. In addition the average level of the satisfaction of the students with the computer instruction for CPBL-M model was high ($\bar{X} = 4.25$, S.D. = 0.48).

This study is concluded that the CPBL-M model integrated with problem-based learning, collaborative learning techniques and Mentoring System in computer network environment. The CPBL-M model is an efficient instructional model as a guideline for child-centered instruction.

Keywords: Problem-Based Learning, Collaborative Learning, Mentoring System, Computer Instruction, Web-Based Instruction