Title : The development of a computer assisted instruction package with tutorial through e-learning on computer technology curriculum

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Abstract

Purposes of the research were to design and develop Computer Assisted Instruction Package with tutorial through e-learning on computer technology curriculum and to find out efficiencies, effectiveness and learners' satisfaction towards the package. The research tools were: 1) The Computer Instruction Package on Database Management System Subject 2) Achievement tests 3) Quality assessment and evaluation form for multimedia software and 4) questionnaire of learners' satisfaction. Sampling groups composed of 50 Bachelor second year students from Faculty of Science and Technology, Program Information Technology and Computer, Rajamangala University of Technology Phra Nakhon.

Research results revealed that the efficiency of the Computer Instruction Package was at 82.50/82.56, corresponding with 80/80 criteria. Analysis of pre-test and post-test scores found that the effectiveness after the process (Epost) was at 82.56, it was higher than before the process (Epre) which was at 14.62. Therefore the Computer Instruction Package on Program Design and Development could increase the students learning effectiveness up to 67.94, corresponding with 60 criteria. Mean of satisfaction of the sampling groups was rather at a high level (4.28). It could be concluded that the Computer Assisted Instruction Package with tutorial through e-learning on computer technology curriculum had the efficiency that could used for self study.