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SICHON KHOANMATTA : THE APPLICATION OF COMPUTER  
ASSISTED INSTRUCTION ON MANGROVE FOREST FOR STUDENT AT LOWER  
SECONDARY SCHOOL LEVEL. THESIS ADVISORS : WASIN PLUMCHAROEN,  
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This was an experimental research to construct and determine the efficiency of lesson learning on computer assisted instruction (CAI) at mangrove forest for students at lower secondary school level. The process was as follows :

1. Constructing and developing the lesson on computer assisted instruction was done on a study of the contents of mangrove forest and the methodology of CAI lessons from academic documents and related researches. After the lessons had been constructed, they were examined by 5 experts. Before the experiment was tested, the constructed lessons had been tried out 3 times with the 4, 8, and 30 students at lower secondary school level.

2. The developed learning lesson of computer assisted instruction was tested with a specified sample group, 30 students at level 2 of lower secondary school of Rajprachasamasai Secondary School, Ampur Prapradaeng, Samutprakarn Province. The assessment of knowledge achievement on CAI learning lessons of the experimental group was done with questionnaires that would measure knowledge achievement and satisfactory assessment on learning lesson of CAI was evaluated by the experimental group. Data analysis was determined with descriptive statistics. The results were shown in percentages, modes, means, and inferential statistics in terms of t-test.

It was found that the mean score of knowledge in the post-test of the experimental group was statistically significant at the level of 0.05 when compared with the pre-test of the experimental group. Simultaneously, the students used an assessment form to evaluate satisfaction with CAI lessons. The results were in the good and excellent levels.

From the research results, it should be concluded that the learning lesson on computer assisted instruction (CAI) on mangrove forest was qualified to use for increasing knowledge of student at lower secondary school level.