

Krit Phusirimongkol 2011: Simulated Multimedia Computer Instruction on Mangrove Ecology for Undergraduate Students. Master of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Suwich Budsuwan, M.Ed. 123 pages.

The objectives of this research were: 1) to construct of the simulated multimedia computer instruction on mangrove ecology for undergraduate students according to the intended 80/80 criteria of efficiency; 2) to compare the learning achievement scores with the pretest scores, and 3) to study the students' satisfaction toward simulated multimedia computer instruction on mangrove ecology.

The sample was 41 students from the Faculty of Fisheries, Kasetsart University, they were selected by cluster random sampling. The research instruments were simulated multimedia computer instruction on mangrove ecology for undergraduate students, media quality evaluation form, learning achievement test and the questionnaire. Data were analysed by percentage, mean, standard deviation, and t-test.

The results were as follows: 1) the efficiency of simulated multimedia computer instruction on mangrove ecology was at 80/80 according to the criteria; 2) the learning achievement scores after learning through simulated multimedia computer instruction on mangrove ecology were statistically significant higher than pretest scores at .05 level, and 3) the students' satisfaction toward simulated multimedia computer instruction on mangrove ecology was at higher level.

---

Student's signature

---

Thesis Advisor's signature