

Patarachai Chuthamas 2004: Development of Computer Multimedia on a Part of Plant Taxonomic Study for E-learning of School Botanical Garden, Plant Genetic Conversation Project under the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn. Master of Science (Development Communication), Major Field: Development Communication, Department of Agricultural Extension and Communication. Thesis Advisor: Associate Professor Narong Sompong, Ph.D. 166 pages. ISBN 974-273-022-9

The objectives of the research on “Development of Computer Multimedia on Plant Taxonomic Study for E-learning of School Botanical Garden, Plant Genetic Conversation Project under the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn” were 1) to develop the computer multimedia program for the secondary students learning. 2) to investigate the learning achievement on a part of plant taxonomy of secondary students through using the computer multimedia program as e-Learning. 3) To determine the opinion of students towards e-Learning using the computer multimedia program. Data were analyzed and the hypotheses were tested by using the statistic program for windows.

The results of the study revealed that the learning effectiveness of students concerning a part of plant taxonomy was higher after studying through computer multimedia program at 0.05 significant level. This indicates that the developed computer multimedia program was effective in increasing students’ knowledge. In terms of identifying students’ opinion on learning a part of plant taxonomy through computer multimedia program, student had high opinion on the overall features of the developed program. The educational institutes, school teacher, and computer multimedia program developer could use these results to develop effective computer multimedia program for e-learning in the future.