THE DEVELOPMENT OF MULTIMEDIA FOR STUDENT-CENTERED LEARNING STYLE: A CASE STUDY OF EDUCATIONAL PSYCHOLOGY COURSE

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The purpose of the research was to develop a professional teacher course by constructing effective instructional media for the students in school of industrial education, King Mongut's University of Technology Thonburi. Teacher professional course or fundamental educational course in the curriculum of School of Industrial Education, KMUTT had many subjects such as Educational Psychology, Educational Philosophy, Measurement and Evaluation in Education, etc. The researchers decided to use Educational Psychology course for our project as the case study for the development of other courses in the future. The researchers very well knew that for successful education to be reformed in Thailand it is important to reconstruct the process of learning - teaching, and the training of teachers. The process of teacher training and practice must be an able model of educational reform. The main theme in the New National Education Act is the learner-centered or self-study method. Such learning style will occur easily by using effective instructional media. The first step of this research was to study and analyze the content in Educational Psychology course; then search for the type and characteristic of instructional media which would help with the self-study method. The researchers also analyzed characteristics and the learning styles of the students in School of Industrial Education, KMUTT. After analyzing all of the components, the researchers decided to construct multimedia programs composed of CAI and slide multivision. The content for CAI was "Learning Theory" and for slide multivision was "Individual Differences". After the construction of multimedia for Educational Psychology course had been completed, we had to test for quality by allowing the experts in CAI and slide multivision in the criteria 80/80. The next step was to test for efficiency by using the sample of the students in School of Industrial Education, KMUTT. It was found that the multimedia for instruction in educational psychology course was in good level both in quality and efficiency because the rating scale of the experts was rather high (3.00 - 4.00) in every element and the sample had better scores after acquiring the new skills by using our multimedia program. It was verified that our constructed media can be used efficiently for self-study in professional teacher course.