

Kanyarat Sriwisathiyakun 2013: Development of Collaborative Learning Activities Model with Learning Objects Based on Constructivism. Doctor of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Surachai Prasertsaruay, M.Ed. 231 pages.

The purposes of this research were 1) to develop the Collaborative Learning activities model with Learning Objects based on Constructivism (COLLOC). 2) to assess the students' learning using the authentic assessment.

The Experimental group contained 40 undergraduate students in the Faculty of Information Technology, Sripatum University, who enrolled to the Introduction to e-Business course in the first semester of the academic year 2012. The research methodology was divided into three phases. 1) synthesizing model phase. 2) developing-implementing and experimenting phase and 3) authentic assessment on the students' learning phase.

The results of this research were found that 1) the COLLOC model was approved by specialists, and their consensus on the suitability of the model were at the highest level. The model consisted of three phases of learning activities, Preparation phases, Schema Restructuration phases, and Application phases, integrated with the eight characteristics of Learning Objects that were shared across the internet, work in collaborative environment, and support social negotiation and understanding shareability. The eight characteristics were digital resources, learnability, congruency, granularity, reusability, adaptability, interoperability, and accessibility. 2) the results of authentic assessment through rubric on the students' learning quality were at the highest level. These results were consistent with the observation, interview and students' opinion on the COLLOC.

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Student's signature

Thesis Advisor's signature