ABSTRACT

This thesis is focused on designing a usable educational system for tertiary level students in Selangor and Klang Valley. To achieve this, the author has come up with a set of questions for testing the usability of existing educational systems used in University of Malaya and in some of the colleges around Klang Valley and Selangor. The questions in the questionnaires are prepared based on the socio-constructivist way of learning in the social context of Malaysian students and also the software heuristics. The results of the survey was analyzed statistically and discussed to serve as requirements for the design of a usable educational system for these students. A prototype is developed to test this new design with a group of students from University of Malaya. Results of the test are also analyzed and discussed to compare this new design with the existing educational systems used by the students. The results show that the new design is more accepted by the students. It is 100% socially accepted and 50% practically accepted by the evaluators. 80% of the students could agree to the lesson structure in the courseware and 100% agree that it is not teacher-directed. However, students are still not able to accept the socio-constructivist view of learning as the results of the test attempted in the courseware (34.25%) and also the results of survey (49.5%) showed a rather low acceptance.