ABSTRACT

This study was to determine whether computer skill affects students' achievement through the implementation of e-learning called learning management system (LMS). It was focused on grade 10 students for information technology (IT) subject. The study's cohort consisted of 182 students and was conducted in a private senior high school in Indonesia which already established e-learning in teaching and learning systems. Two instruments were used to capture computer skill and student's achievement. Computer skill was measured by utilizing a questionnaire named Technical Survival Skill Test (TSST) that was developed by University of Atlanta. The TSST evaluated the student's knowledge of basic computer skill, Internet browser skill, e-mail skill, and basic word processing skill. Student's achievement was evaluated from all assignments which were developed by the school's IT teachers during the first semester of 2009/2010 academic year. The main finding indicates that computer skill has a direct relationship with student's achievement through the use of LMS for IT subject among grade 10 students. Furthermore, computer skill score also can be used to predict student's achievement. The other findings of this study are (1) Student's Computer Skill had weak significant relationship with the student's Verbal Ability and English score, (2) the use of MOODLE as a Learning Management System in IT subject is not affected by gender, father's education, mother's education, social economic, religion and school of origin, and (3) TSST is valid and reliable to measure the computer skill among the student in senior high school.

Keywords: *computer skill, student achievement, e-learning, learning management system, MOODLE*