ABSTRACT

Over time, the world has entered the era of globalization, information and communication technology are rapidly evolving. The rapid advancement of this technology must be complemented by efforts to improve the quality of education and knowledge. One way to support efforts to improve the quality of education and knowledge, among others is a good learning strategy, and it is fully supported by e-learning.

In the application of e-learning in IT Telkom no previous studies conducted on the factors that support successful implementation of e-learning, as well as a detailed evaluation of the success of e-learning is being applied. This leads to the need to determine the critical success factors that can be applied to achieve the effectiveness of e-learning in IT Telkom.

This study is a confirmatory research that examined the influence of student computing, student collaboration, student content, technology access and infrastructure to the effectiveness of e-learning at IT Telkom. The process of taking samples came from 342 IT Telkom students from three different faculties, namely the Faculty of Electrical and Communication, Faculty of Industrial Engineering and the Faculty of Science. Data analysis using Structural Equation Modeling with AMOS software.

The results of this study indicate that the greatest influence on the effectiveness of e-learning is the dimension of Student Collaboration with the value of 45% influence on the acceptance of e-learning by students, and 32% of the performance of e-learning. Based on these studies concluded that the factors that most influence the effectiveness of e-learning is a Student Collaboration IT Telkom.

Keyword : *E-learning, Critical Success Factor,* and *Structural Equation Modeling*