ABSTRACT

Current development of network technology is growing fast. This condition enables digital content to be delivered faster from one point to another point. In education world, this technology then is used for e-learning. E-learning can be implemented in teaching process of technical drawing lab work. In this case e-learning can be an assist tool to teach and how to use the tools in AutoCAD software. E-learning can be used by students to learning again subject that they get and to solve problems in AutoCAD anytime and anywhere as long as there is a computer. Visualization in teaching the lab work subject can be clearer than in conventional teaching. The use of web media can be used as a discussion media, asking, and direct communication with assistant without face to face.

In designing e-learning, there are several things to solve the problem that divided into six steps. Learning step, system analysis step, system design step, implementation step, evaluation step, and conclusion and suggestion step. Learning step makes a study about literature, technology, and existing condition of Technical Drawing lab. Analysis step analyzes functional and application needed, user, and technology that required designing e-learning. The next step is designing system with a prototype design. This prototype is tested and then implemented in technical drawing lab work. And then evaluate the implementation of e-learning by doing a measure of e-learning performance, the effectiveness of e-learning, and feedback from user. Last step is concluding in conclusion and suggestion step from system.

From the research's result that has been done, obtained conclusions that e-learning can be used as a complement from the teaching process of Technical Drawing lab work because e-learning offers something that cannot be done by the conventional teaching process. The implementation of e-learning is enough to increase the knowledge to its user in case the user must try the tutorial directly in AutoCAD.

Keyword: e-learning, web, AutoCAD, technical drawing