

ABSTRACT

Learning resource is anything that can be used by students to facilitate the learning goals or competencies. In learning process, learning resource delivered by media of learning. The more technology growth, the more widely use of media and interactive learning in learning such as the use of computer technology and the internet network. Industrial Engineering Faculty of IT Telkom in order to improve the competence of students making changes of curriculum for 2012/2013 academic year. One of the new course for industrial engineering is manufacturing Processes and Practicum with course code IEG2G3. The presence of new courses has not been accompanied by an enough teaching resource, especially how to learn CAD/CAM systems. This course using software which need procedural skills. The ability of e-learning as a learning medium that can make learners interact actively be a reason for creating e-learning software SolidCAM. One of important element of the success of an e-learning is the content.

This research using Instructional Design Model ADDIE for Analysis and Design phase. The initial step is to identified the needs, and then determine the content of e-learning according to the needs. The content begins with the identification task based on existing sources by considering the current laboratory module. The next step is the analysis and validation of the proposed content. The validation is perform by 3 expert and by distributing questionnaires of Delphi Method. The resultd are then presented in learning outline.

The data analysis performed with the validation of the proposed content so that the content should be studied by students of Industrial Engineering IT Telkom for Practicum Manufacturing Process. And the results is the content of e-learning which will be continued in future research.

Keywords: learning resource, Manufacturing Processes and Practicum, CAD/CAM systems, e-learning, ADDIE model, Delphi method, e-learning content