ABSTRACT

New technologies in the field of information and communication has an important role in the establishment of learning aids as interactive multimedia. Tools of teaching in universities today still part of a conventional system that often makes students become bored. This happens because the delivery of material that is less interesting, boring and eventually make students less effective in absorbing the learning materials delivered. Multimedia is able to change the learning environment "learning with effort" to "learning with fun". Through this interactive multimedia, the learning process can be a creative process, fresh and not boring for the students. This can make the learning process more effective.

One of the new courses is the Manufacturing Process and Practice (IEG2G3). The presence of new courses has not been accompanied by a sufficient teaching resources, especially material to learn CAD / CAM systems. The material is one of them using the software that is procedural skills, thus requiring an interactive teaching media to further improve the understanding. The ability of E-learning as a learning medium that can make learners to interact actively made the basis for e-learning software SolidCAM. One important element of the success of an E-learning is the application. This application can be generated dengang conducting research using methods Instuctional ADDIE Design Model in the Development phase. This stage is discussed and then the next will be conducted user acceptance and blackbox methods for testing these applications. This Develop phase is a second phase research after the Analyze and Design Phase which done by first researcher, then it will continue to Implement and Evaluate phase by third researcher.

Keywords: Teaching Resources, Manufacturing Process and Practice, CAD / CAM systems, e-learning, ADDIE Model, E-learning Applications, Develop Phase