

ABSTRACT

Learning is a complex process that occurs in every person and lasts a lifetime. The learning process of individual and contextual, meaning that learning occurs in accordance with the development of students and the environment. Learning paradigm shift from teacher-centered to learner-centered, encouraging students to explore themselves through existing teaching tools so that learning does not only apply in one direction as it is now.

Automation Experties Group IT Telkom has many equipments to improve student's skill in automation field, one of them is pneumatic & electropneumatic equipment. However, those equipments not supported by learning sytem which may facilitate the student to understand it. Therefore, will be designed a learning tools of e-learning about pneumatic and electropneumatic.

First step of this research is formulate the problem and determine the objective, then analyze system needs, material and user. Result of analysis will become the referenes of design system. In designing e-learning using Moodle as the application of e-learning and animations. After doing the design of, the next step is test the e-learning pneumatic and electropneumatic using questionnaires.

After testing, analyze the result of questionnaire that will get the advantages and disadvantages of e-learning has been made. E-learning can be immediately implemented in Automation Experties Group with continual improvements.

Keywords: Learning, Automation Experties Group IT Telkom, e-learning, pneumatic, electropneumatic