

ABSTRACT

ZIDNY FADHILA HARIS, Development of Mathematics Module as Instructional Materials at Open Junior High School for Systems of Linear Equations Two Variables Topic in 8th Grade with Contextual Approach. Thesis. Jakarta: Mathematics Education Program, Faculty of Mathematics and Sciences, State University of Jakarta, 2016.

This study is aimed to develop math module as instructional materials for 8th grade at Open Junior High School. Based on the students characteristics and needs analysis, the topic that discussed in the developed module is Systems of Linear Equations Two Variables and learning approach that used is contextual approach. The principle of contextual approach is to link the material to real life and using the seven principles, they are constructivism, questioning, inquiry, learning community, modelling, reflection, and authentic assessment.

The method that used in this study is Research and Development. This study through five stages, they are the analysis of the product to be developed, early product development, experts validation and revision, small-scale field trials and revisions, and large-scale field trials and the final product.

Based on the content and language experts validation obtained the overall average percentage of 82.59%, so in this aspect of the content and the language included in the very well-criteria. The developed module according to the math curriculum that used by Open Junior High School, each component that was described is clear and easy to be understood, the topic explanation according to mathematical concept, the topic explanation according to contextual approach, and the language that used is good and according to the right order of language. Then the overall average percentage that is obtained from the media experts validation is 87.6%, thus in this aspect of media included in the very well-criteria. The overall presentation and the design of module are very good. The overall average percentage that is obtained from the large-scale field trials is 87.18%. This percentage indicates that the module is included in the very well-criteria, so that the module is worth to be used for the mathematics learning at Open Junior High School in Systems of Linear Equations Two Variables topic.

Keywords: Module, Open Junior High School, Systems of Linear Equations Two Variables, Research and Development, Contextual.