ABSTRACT

Syifa Khairu Nida. Development of Environmental-Based Chemistry Learning Module With Problem Based Learning Approach In The Material of Oxidation Reduction Reaction. Essay. Jakarta: Chemistry Education Study Program, Faculty of Mathematics and Natural Sciences, Jakarta State University, July 2017.

This research aims to develop chemistry materials in the form of environmentally sound module by using problem based learning approaches on the reaction material of Oxidation Reduction class X. Research method used is research and development (Research and Development). Stages performed in this study, namely needs analysis, product development, product validation by material experts, language, and media, and product testing by learners and teachers. The learning module is prepared by applying the steps of problem based learning approach. Presentation of problems and the design of learning activities arranged systematically with an interesting appearance to support the interests of learners in the learning process. The results of validation by the experts showed very good results with the percentage of assessment >80%. In the final stages, the results of product trials by learners and teachers also showed excellent results with a percentage of >85%. Based on the results obtained can be concluded that environmentally oriented learning module with problem based learning approach developed very well and feasible to be used in chemistry learning post.

Keywords: *Learning Module, Problem Based Learning Approach, Environmental Chemical Issues, Oxidation Reduction Reaction.*