ABSTRAK

Isabela, Febiana 2022. *Pengembangan Lembar Kerja Peserta Didik Elektronik Berbasis Pendekatan Saintifik Pada Materi Redoks.* Skripsi. Tanjungpinang: Program Studi Pendidikan Kimia, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Friska Septiani Silitonga., S.Pd., M.Sc. Pembimbing II: Assist. Prof. Inelda Yulita., S.Pd., M.Pd.

Kata kunci : LKPD Elektronik, Pendekatan Saintifik, Redoks

Penelitian ini dilatar belakangi oleh kurangnya ketersediaan bahan ajar yang sesuai dengan kebutuhan peserta didik yaitu dibutuhkan suatu bahan ajar khususnya bahan ajar berbasis elektronik. Penelitian ini bertujuan untuk mengembangkan LKPD elektronik menggunakan *bookcreator*, mengetahui validitas dari LKPD elektronik berbasis pendekatan saintifik pada materi redoks, mengetahui praktikalitas dari LKPD elektronik berbasis pendekatan saintifik pada materi redoks. Penelitian ini menggunakan jenis penelitian *Research and Development* (R&D) dengan model pengembangan ADDIE yang terdiri dari 5 tahap yaitu tahap *Analysis* (analisis), tahap *Design* (perancangan), tahap *Development* (pengembangan), tahap *Implementation* (implementasi), dan tahap *Evaluation* (evaluasi), dalam penelitian ini hanya digunakan sampai tahap *implementasi* (penerapan). Subjek penelitian adalah 1 guru dan 24 peserta didik SMKN 1 Gunung Kijang. Penelitian ini diuji oleh ahli materi dan ahli bahan ajar, serta guru, dan peserta didik sebagai responden. Hasil validasi ahli materi didapatkan persentase rata-rata sebesar 74.04% dengan kategori valid, sedangkan hasil validasi ahli bahan ajar didapatkan persentase rata-rata 71.43% dengan kategori valid. Hasil uji praktikalitas peserta didik didapatkan persentase rata-rata sebesar 81.15% dengan kategori praktis dan hasil uji praktikalitas oleh guru sebesar 96.88% dengan kategori sangat praktis. Berdasarkan hasil penelitian dapat disimpulkan bahwa LKPD elektronik berbasis pendekatan saintifik pada materi redoks dinyatakan layak digunakan dalam proses pembelajaran.

ABSTRACT

Isabela, Febiana 2022. *The Development of Electronic Student Worksheets Based on a Scientific Approach to Redox Material.* Thesis. Tanjungpinang: Chemistry education Study Program, Faculty of Teacher Training and Education, University of Maritime Raja Ali Haji. Advisor: Assist. Prof. Friska Septiani Silitonga., S.Pd., M.Sc. Co-advisor: Assist. Prof. Inelda Yulita., S.Pd., M.Pd.

Keywords: Electronic LKPD, Scientific Approach, Redox

This research is motivated by unavailability of teaching material that are in accordance with the needs of students, namely a teaching material is needed, especially electronic-based teaching materials. This study aims to Develop Electronic Worksheets by using a bookcreator, knowing the results of the validity of the Electronic LKS based on a scientific approach on redox material, knowing the results of the practicality test of Electronic LKS based on a scientific approach on redox material. This study were Research and Development (R&D) research with the ADDIE research model which consists of 5 stages, namely the Analysis stage, Design stage, Development stage, Implementation stage, Evaluation stage, in this study only used until the implementation stage (implementation). The research subjects were 1 teacher and 24 students at SMKN 1 Gunung Kijang. This research was tested by material experts, teaching materials experts, teacher, and students as respondents. The results of the validation of teaching materials experts obtained an average percentage of 74.04% in the valid category, while the results of the validation of teaching materials experts obtained an average percentage of 71.43% in the valid category. The results of the practicality test of students obtained an average percentage of 81.15% in the practical category and the results of the practicality test by the teacher of 96.88% in the very practical category. Based on the results of the study, it can be concluded that the Electronic LKS based on a scientific approach to redox material is declared suitable for use in the learning process.