

ABSTRAK

Weslita Sitohang, NIM 4211131014 (2025). Pengembangan Lembar Kerja Peserta Didik Elektronik (E-LKPD) Berbasis *Discovery Learning* Pada Materi Kimia Siswa SMA.

Dilaksanakannya penelitian memiliki tujuan agar mengetahui analisis kebutuhan, tingkat kelayakan, serta respon guru dan respon peserta didik dari E-LKPD berbasis *discovery learning* pada materi asam basa. Jenis penelitian ini merupakan penelitian pengembangan (*research and development*) dengan menggunakan model pengembangan ADDIE (*Analysis, Design, Development, Implementation, Evaluation*) namun pelaksanaannya hanya dilaksanakan hingga fase *development* (pengembangan). Subjek penelitian ini meliputi Ahli Materi, Ahli Media, dan guru kimia, siswa kelas XII Bio 1. Hasil penelitian membuktikan bahwa 90% peserta didik menyatakan setuju dan perlunya dikembangkan bahan ajar berupa LKPD berbentuk elektronik berbasis *discovery learning* yang dipakai untuk bahan ajar tambahan dalam kegiatan belajar kimia dikelas. E-LKPD berbasis *discovery learning* yang telah dikembangkan memperoleh persentase kelayakan 86% dari ahli materi masuk dalam kriteria sangat layak, dan 87% dari ahli media masuk dalam kriteria sangat layak. Tanggapan guru kimia terhadap E-LKPD yang telah dikembangkan juga menunjukkan hasil positif dengan persentase 94% dan masuk dalam kategori sangat layak. Sementara itu, respon siswa terhadap E-LKPD berbasis *discovery learning* mendapatkan persentase 90% masuk ke dalam kategori sangat menarik. Berdasarkan hasil tersebut, E-LKPD yang dikembangkan dinyatakan layak dan memenuhi kriteria untuk dipakai dalam proses belajar mengajar kimia pada materi asam basa.

Kata Kunci : *Pengembangan E-LKPD, Discovery Learning, ADDIE, Asam Basa*

ABSTRACT

Weslita Sitohang, NIM 4211131014 (2025). Development of Electronic Student Worksheet (E-LKPD) Based on Discovery Learning on Chemistry Material for High School Students.

The purpose of this research was to determine the needs analysis, feasibility level, and teacher and student responses to the discovery learning-based E-LKPD on acid-base material. This type of research is research and development using the ADDIE (Analysis, Design, Development, Implementation, Evaluation) development model, but the implementation was only carried out up to the development stage. The subjects of this research included Material Experts, Media Experts, and chemistry teachers, students of grade XII Bio 1. The results of the study proved that 90% of students agreed and it was necessary to develop teaching materials in the form of electronic LKPD based on discovery learning which was used as additional teaching materials in chemistry learning activities in class. The discovery learning-based E-LKPD that had been developed obtained a feasibility percentage of 86% from material experts, which was included in the very feasible criteria, and 87% from media experts, which was included in the very feasible criteria. The response of chemistry teachers to the developed E-LKPD also showed positive results with a percentage of 94% and was included in the very feasible category. Meanwhile, student responses to the discovery learning-based E-LKPD obtained a percentage of 90%, which was included in the very interesting category. Based on these results, the developed E-LKPD was declared feasible and met the criteria for use in the chemistry teaching and learning process on acid-base material.

Keywords: *E-LKPD Development, Discovery Learning, ADDIE, Acids and Bases*