

ABSTRAK

Loriska Meliana Br Sinaga, NIM 4193341003 (2023). Pengembangan LKPD Elektronik (E-LKPD) Berbasis *Problem Based Learning* Pada Materi Sistem Pertahanan Tubuh Di Kelas XI IPA SMA Negeri 2 Kabanjahe.

Penelitian ini bertujuan untuk menghasilkan media pembelajaran LKPD Elektronik (E-LKPD) berbasis *Problem Based Learning* pada materi sistem pertahanan tubuh di kelas XI IPA SMA Negeri 2 Kabanjahe. Subjek dalam penelitian ini adalah siswa kelas XI IPA SMA Negeri 2 Kabanjahe yang berjumlah 33 orang siswa. Jenis penelitian ini merupakan penelitian pengembangan atau *Research and Development* (R&D) dengan menggunakan model ADDIE (*analyze, design, develop, implement, evaluate*). Instrumen yang digunakan dalam penelitian ini terdiri dari angket validasi ahli materi, ahli pembelajaran, ahli desain, angket respon guru, angket respon siswa, lembar kerja peserta didik, instrument tes. Teknik analisis data yang digunakan dalam penelitian ini adalah kualitatif. Hasil penelitian menurut validator oleh para ahli yaitu ahli materi persentase skor rata – rata sebesar 87,5% dengan kategori sangat layak, ahli pembelajaran persentase skor rata – rata sebesar 91,67% dengan kategori sangat layak, dan ahli desain persentase skor rata – rata sebesar 77,81% dengan kategori layak. Respon guru dan peserta didik terhadap media pembelajaran LKPD Elektronik (E-LKPD) berbasis *Problem Based Learning* tergolong sangat baik dengan persentase skor rata – rata sebesar 91,67% dan 90,8%. Hasil belajar siswa meningkat setelah penggunaan E-LKPD dengan rata – rata *N-gain score* sebesar 0,73 yang menunjukkan kriteria tinggi sehingga cukup efektif dalam meningkatkan hasil belajar siswa.

Kata kunci : Pengembangan media pembelajaran LKPD Elektronik (E-LKPD), model ADDIE, sistem pertahanan tubuh



ABSTRACT

Loriska Meliana Br Sinaga, NIM 4193341003 (2023). Development of Electronic LKPD (E-LKPD) Based on *Problem Based Learning* on Body Defense System Material in Class XI Science at SMA Negeri 2 Kabanjahe.

This research aims to produce Electronic LKPD (E-LKPD) learning media based on *Problem Based Learning* on body protection system material in class XI Science at SMA Negeri 2 Kabanjahe. The subjects in this research were 33 students in class XI Science at SMA Negeri 2 Kabanjahe. This type of research is development research or Research and Development (R&D) using the ADDIE model (analyze, design, develop, implement, evaluate). The instruments used in this research consisted of validation questionnaires for material experts, learning experts, design experts, teacher response questionnaires, student response questionnaires, student worksheets, test instruments. The data analysis technique used in this research is qualitative. The results of the research according to validators by experts are material experts with an average score percentage of 87.5% in the very feasible category, learning experts with an average score percentage of 91.67% in the very feasible category, and design experts with an average score percentage. amounting to 77.81% with the feasible category. The response of teachers and students to the Problem Based Learning-based Electronic LKPD (E-LKPD) learning media was classified as very good with an average score percentage of 91.67% and 90.8%. Student learning outcomes increased after using E-LKPD with an average N-gain score of 0.73 which shows high criteria so it is quite effective in improving student learning outcomes.

Keywords: Development of Electronic LKPD learning media (E-LKPD), ADDIE model, body protection system