

ABSTRAK

Christin Hutahaean, NIM.4203141042 (2024), Pengembangan Media Pembelajaran Biologi Berbasis Video Berbantuan Powtoon pada Materi Sistem Pertahanan Tubuh di SMA Negeri 1 Laguboti

Penelitian ini bertujuan mengetahui kelayakan media pembelajaran *powtoon*, mengetahui respon siswa dan guru, dan mengetahui efektifitas media pembelajaran *powtoon*. Jenis penelitian ini adalah penelitian pengembangan (*Research and Development*) dengan model ADDIE yang terdiri dari 5 tahap, yaitu *analyze, design, development, implementation*, dan *evaluation*. Video pembelajaran dikembangkan dengan aplikasi *powtoon*. Hasil penilaian kelayakan video oleh ahli materi diperoleh sebesar 93% dengan kriteria sangat layak. Penilaian kelayakan video oleh ahli media diperoleh sebesar 78% dengan kriteria sangat layak. Penilaian kemenarikan video yang diberikan guru biologi sebesar 98% dengan kriteria sangat menarik. Penilaian kemenarikan video menurut respon siswa dikategorikan sangat menarik dimana dalam uji coba skala kecil diperoleh sebesar 85%, sedangkan dalam uji coba skala besar diperoleh sebesar 85%. Video yang dikembangkan efektif digunakan karena peserta didik mengalami peningkatan pada hasil belajar peserta didik sebelum dan sesudah belajar menggunakan video *powtoon*.

Kata Kunci: video *powtoon*, sistem pertahanan tubuh, ADDIE, dan hasil belajar.



ABSTRACT

Christin Hutahaeen, NIM.4203141042 (2024), Development of *Powtoon*-Assisted Video-Based Biology Learning Media on Body Defense System Material at SMA Negeri 1 Laguboti

This research aims to determine the feasibility of the Powtoon learning media, determine the responses of students and teachers, and determine the effectiveness of the Powtoon learning media. This type of research is development research (Research and Development) with the ADDIE model which consists of 5 stages, namely analyze, design, development, implementation, and evaluation. Learning videos are developed with the powtoon application. The results of the video feasibility assessment by material experts were obtained at 93% with very feasible criteria. The video feasibility assessment by media experts was obtained at 78% with very feasible criteria. The biology teacher's assessment of the attractiveness of the video was 98% with the criteria being very interesting. The assessment of the attractiveness of the video according to student responses was categorized as very interesting, where in the small scale trial it was obtained at 85%, while in the large scale trial it was obtained at 85%. The videos developed are effective in use because students experience an increase in student learning outcomes before and after learning using Powtoon videos.

Keywords: powtoon video, body defense system, ADDIE, and learning outcomes.

