

ABSTRAK

Mira Amelia, NIM 4202421012 (2020), Pengembangan Bahan Ajar Berbasis Video *Powtoon* Pada Materi Gelombang Bunyi di SMA YPK (Yayasan Pendidikan Keluarga) Medan.

Berdasarkan observasi yang dilakukan dengan guru fisika di SMA YPK Medan dan penyebaran angket kepada peserta didik bahwa ditemukan masalah yaitu diketahui bahwa hasil belajar yang diperoleh peserta didik masih rendah, guru masih kurang memanfaatkan teknologi yang ada, ditemukan bahwa guru yang kurang mampu menyajikan media pembelajaran seperti audio, dan video dengan baik. Penelitian ini bertujuan untuk mengetahui tingkat kelayakan, respon siswa terkait kepraktisan, serta keefektifan bahan ajar berbasis video *Powtoon*. Metode penelitian yang digunakan dalam penelitian ini ialah R&D (Research and Development) Borg and Gall. Subjek dari penelitian ini yaitu pada kelompok kecil berjumlah 10 peserta didik, kelompok besar berjumlah 25 peserta didik, dan uji coba lapangan berjumlah 35 peserta didik. Tingkat kelayakan divalidasi oleh ahli materi dan media dikategorikan sangat layak. Tingkat kepraktisan diukur melalui hasil respon guru dan siswa dikategorikan sangat layak. Hasil dari tingkat keefektivitasan diukur dari skor *pre-test post-test* dengan menggunakan skala *likert*. Hasil yang diperoleh hasil belajar siswa meningkat setelah menggunakan bahan ajar berbasis *Powtoon*.

Kata Kunci: Bahan Ajar Interaktif, *Powtoon*.

ABSTRACT

Mira Amelia, NIM 4202421012 (2020), Development Powtoon-Base Teaching Materials On Sound Wave in SMA YPK (Yayasan Pendidikan Keluarga) Medan.

Based on observations made with physics teachers at YPK Medan High School and distributing questionnaires to students, problems were found, namely that the learning outcomes obtained by students were still low, teachers still did not utilize existing technology, it was found that teachers were less able to present learning media such as audio and video well. This research aims to determine the level of feasibility, student responses regarding practicality, and the effectiveness of Powtoon video-based teaching materials. The subjects of this research were a small group of 10 students, a large group of 25 students, and a field trial of 35 students. The research method used in this research is Borg and Gall R&D (Research and Development). The level of feasibility validated by material and media experts is categorized as very feasible. The level of practicality is measured through the results of teacher and student responses which are categorized as very feasible. The results of the level of effectiveness are measured from the pre-test post-test scores using a Likert scale. The results obtained by student learning improved after using Powtoon-based teaching materials.

Keywords: Interactive Teaching Materials, Powtoon.

