

ABSTRAK

Hotmawaty Hara Br. Lumban Batu, NIM 4173121022 (2024). Pengembangan Instrumen Tes Materi Gerak Parabola untuk Mengukur Keterampilan Berpikir Kritis Siswa Kelas X SMA Swasta Taman Siswa Medan.

Penelitian ini bertujuan untuk mengetahui kelayakan instrumen tes fisika untuk mengukur kemampuan berpikir kritis siswa materi gerak parabola yang meliputi aspek validitas, reliabilitas, tingkat kesukaran, daya beda, dan uji respon pada siswa. Instrumen tes yang dikembangkan adalah instrumen tes dengan menggunakan indikator berpikir kritis berdasarkan taksonomi Ennis. Jenis penelitian ini merupakan Research and Development dengan pendekatan ADDIE dengan tahapan *analysis, design, development, implementation, dan evaluation*. Data penelitian diperoleh dengan mengujicobakan instrumen tes fisika yang dikembangkan berupa tes uraian sebanyak 12 soal. Analisis validasi isi menunjukkan bahwa sebanyak 10 soal valid. Reliabilitas instrumen 0,97, tingkat kesukaran 0,25 – 0,76, dan daya beda 0,28 – 0,58 dan hasil uji respon siswa terhadap instrumen ini masuk kedalam kategori sangat baik dengan range 77,50 % - 99,17 % artinya siswa menunjukkan respon positif terhadap instrumen tes keterampilan berpikir kritis. Berdasarkan kriteria tersebut, maka 10 soal telah dinyatakan layak dan efektif digunakan sebagai instrumen tes fisika untuk mengukur keterampilan berpikir kritis bagi siswa.

Kata Kunci : Pengembangan ADDIE, Tes Keterampilan Berpikir Kritis, Gerak Parabola

ABSTRACT

Hotmawaty Hara Br. Lumban Batu, NIM 4173121022 (2024). Development of Test Instruments on Parabolic Motion Material to Measure Critical Thinking Skills of Class X Students of SMA Swasta Taman Siswa Medan.

This study aims to determine the feasibility of physics test instruments to measure students' critical thinking skills in parabolic motion material which includes aspects of validity, reliability, difficulty level, differentiability, and student response tests. The test instrument developed is a test instrument using critical thinking indicators based on Ennis' taxonomy. This type of research is Research and Development with the ADDIE approach with the stages of analysis, design, development, implementation, and evaluation. The research data was obtained by testing the physics test instrument developed in the form of a description test of 12 questions. Content validation analysis showed that 10 questions were valid. The reliability of the instrument is 0.97, the difficulty level is 0.25 - 0.76, and the differential power is 0.28 - 0.58 and the results of the student response test to this instrument fall into the excellent category with a range of 77.50% - 99.17%, meaning that students show a positive response to the critical thinking skills test instrument. Based on these criteria, the 10 questions have been declared feasible and effective to be used as a physics test instrument to measure critical thinking skills for students.

Keywords: ADDIE Development, Critical Thinking Skills Test, Parabolic Motion