

ABSTRAK

Fazri Imran, NIM 4193121025 (2019), Pengembangan Instrumen Tes Pengembangan Instrumen Tes *Higher Order Thinking Skill* (Hots) Berbasis Keterampilan Berpikir Kritis Siswa Pada Materi Momentum Dan Impuls

Penelitian ini bertujuan untuk mengetahui proses pengembangan, hasil uji kelayakan dan hasil keterampilan berpikir kritis peserta didik terhadap instrumen tes keterampilan berpikir kritis pada materi momentum dan impuls. Jenis penelitian pengembangan dengan model ADDIE (*Analysis, Design, Development, Evalution, and Implementation*). Instrumen tes dikembangkan berdasarkan indikator keterampilan berpikir kritis oleh Facione. Penelitian dilakukan di SMA Negeri 6 Medan yang berjumlah 10 peserta didik pada uji coba skala kecil dan 30 peserta didik pada uji coba skala besar. Hasil data yang diperoleh dari validasi isi menggunakan skala Guttman. Subjek validasi isi terdiri dari 2 dosen fisika dan 1 guru fisika. Uji coba skala kecil diperoleh 8 soal valid dan 2 soal tidak valid, nilai reliabilitas sebesar 0,929 kategori sangat tinggi, tingkat kesukaran diperoleh 1 soal dengan kriteria mudah dan 9 soal sedang, daya beda diperoleh 1 soal kategori tidak baik, 1 soal kategori cukup, dan 8 soal kategori baik. Uji coba skala besar diperoleh 8 soal valid, nilai reliabilitas sebesar 0,907 kategori sangat tinggi, tingkat kesukaran diperoleh 2 soal dengan kriteria mudah dan 6 soal sedang, daya beda diperoleh 8 soal kategori baik. Hasil keterampilan berpikir kritis peserta didik memperoleh rata-rata 67,83% dengan kriteria kritis.

Kata kunci : Instrumen tes, keterampilan berpikir kritis, momentum dan impuls, ADDIE

ABSTRACT

Fazri Imran, NIM 4193121025 (2024). Development of Higher Order Thinking Skill (Hots) Test Instruments Based on Students' Critical Thinking Skills on Momentum and Impulse Material

This study aims to determine the development process, feasibility test results and the results of students' critical thinking skills on critical thinking skills test instruments on momentum and impulse material. This type of development research uses the ADDIE model (Analysis, Design, Development, Evaluation, and Implementation). The test instrument was developed based on indicators of critical thinking skills by Facione. The research was conducted at SMA Negeri 6 Medan which amounted to 10 students on a small scale trial and 30 students on a large scale trial. Data results obtained from content validation using a Guttman scale. Content validation subjects consisted of 2 physics lecturers and 1 physics teacher. Small-scale trials obtained 8 valid questions and 2 invalid questions, reliability value of 0.929 very high category, level of difficulty obtained 1 question with easy criteria and 9 medium questions, differentiating power obtained 1 question category is not good, 1 question category is sufficient, and 8 questions category is good. Large-scale trials obtained 8 valid questions, a reliability value of 0.907 very high category, the level of difficulty obtained 2 questions with easy criteria and 6 medium questions, the differentiating power obtained 8 good category questions. The results of students' critical thinking skills obtained an average of 67.83% with crisis criteria.

Keyword: test instrument, critical thinking skills, momentum dan impulse, ADDIE