ABSTRAK

Yusliana, NIM 4171121039, Pengembangan Instrumen Tes Pengetahuan Konseptual pada Materi Hukum Newton di SMA

Penelitian ini bertujuan untuk mengembangkan tes Pengetahuan Konseptual untuk mengetahui kelayakan tes pada materi Hukum Newton. Jenis penelitian yang digunakan yaitu penelitian *Research and Development* (R&D) menggunakan model pengembangan ADDIE (*Analysis, Design, Development, dan Evaluation)*. Instrumen Penelitian yang digunakan ialah angket validasi, tes, dan angket tanggapan siswa. Subjek penelitian ini yaitu siswa kelas XI MIPA di SMA Negeri 1 Aek Kuo yang berjumlah 20 peserta didik pada uji skala terbatas dan 64 peserta didik pada uji skala luas. Dari analisis data, diperoleh sebanyak 14 soal valid dengan koefisien reliabilitas sebesar 0,84. Tingkat kesukaran diperoleh sebanyak 6 soal mudah, dan 8 soal yang sedang. Daya pembeda diperoleh sebanyak 5 soal baik sekali, 8 soal baik, dan 1 soal cukup. Diperoleh sebanyak 13 butir soal memiliki efektivitas pengecoh sangat baik, 1 soal baik, serta tanggapan peserta didik terhadap instrumen tes yang dikembangkan sebesar 90,9% yang artinya instrumen yang dikembangkan sangat baik.

Kata kunci : Pengembangan, Tes Pengetahuan Konseptual, Hukum Newton

ABSTRACT

This study aims to develop a Conceptual Knowledge test to determine the feasibility of the test on Newton's Law material. The type of research used is Research and Development (R&D) using the ADDIE development model (Analysis, Design, Development, and Evaluation). The research instrument used was a validation questionnaire, a test, and a student response questionnaire. The subjects of this study were students of class XI MIPA at SMA Negeri 1 Aek Kuo, totaling 20 students on the limited scale test and 64 students on the wide scale test. From the data analysis, obtained as many as 14 valid questions with a reliability coefficient of 0.84. The difficulty level was obtained as many as 6 easy questions, and 8 moderate questions. Distinguishing power was obtained as many as 5 very good questions, 8 good questions, and 1 sufficient question. It was obtained that 13 items had very good distractibility effectiveness, 1 item was good, and the students' responses to the developed test instrument were 90.9%, which means the instrument developed was very good.

Keywords: *Development, Conceptual Knowledge Test, Newton's Law*