

ABSTRAK

Saputra, I Gede Eka (2022), *Pengembangan Instrumen Penilaian Kemampuan Berpikir Kritis Peserta Didik Kelas VIII SMP Pada Materi Getaran dan Gelombang*. Tesis, Penelitian dan Evaluasi Pendidikan, Program Pascasarjana, Universitas Pendidikan Ganesha.

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Kata-kata kunci: instrumen penilaian, berpikir kritis, getaran dan gelombang

Penelitian ini bertujuan untuk mengetahui rancang bangun instrumen penilaian kemampuan berpikir kritis, menghasilkan instrumen penilaian yang memenuhi validitas dan reliabilitas, mengetahui hasil pengujian daya beda dan tingkat kesukaran, dan mengetahui hasil pengujian kualitas instrumen penilaian menggunakan *Graded Response Model*. Subjek uji coba dalam penelitian ini adalah sebanyak 90 peserta didik kelas VIII di SMPN 1 Tegallalang. Penelitian ini termasuk dalam *Research and Development* dengan desain 4D (*define, design, develop, dan disseminate*). Prosedur uji coba pengembangan instrumen penilaian meliputi uji validitas isi menggunakan *indeks Content Validity Ratio (CVR)*, konsistensi internal butir menggunakan rumus koefisien korelasi *product moment*, reliabilitas instrumen menggunakan rumus *alpha cronbach*, uji daya beda butir menggunakan formula Ferguson, uji taraf kesukaran butir tes, dan analisis kualitas butir tes menggunakan pendekatan *Graded Response Model*. Hasil penelitian menunjukkan bahwa: (1) Nilai CVR pada tiap soal adalah 1,00. (2) Indeks korelasi setiap butir soal lebih besar daripada r tabel sebesar 0,254 dan reliabilitas tes diperoleh sebesar 0,941. (3) Seluruh butir soal memiliki daya pembeda yang berkriteria sangat baik dan tingkat kesukaran pada kriteria sedang maupun sukar. (4) hasil probabilitas siswa menjawab benar menggunakan GRM meningkat dari kemampuan siswa paling rendah sampai paling tinggi pada masing-masing kategori butir soal.

ABSTRACT

Saputra, I Gede Eka (2022), The Development of Critical Thinking Ability Assessment Instruments for Class VIII Junior High School Students on Vibration and Wave Materials. Thesis, Educational Research and Evaluation, Graduate Program, Ganesha University of Education.

This thesis has been supervised and approved by Supervisor I: Prof. Dr. I Nyoman Jampel, M.Pd and Supervisor II: Dr. I Gusti Lanang Agung Parwata, M.Kes.

Keywords: assessment instrument, critical thinking, vibration and waves

This study aims to determine the design of the critical thinking ability assessment instrument, to produce an assessment instrument that meets validity and reliability, to determine the results of the test of discriminating power and the level of difficulty, and to determine the results of testing the quality of the assessment instrument using the Graded Response Model. The trial subjects in this study were 90 students of class VIII at SMPN 1 Tegallalang. This research is included in Research and Development with 4D design (define, design, develop, and disseminate). The test procedures for developing assessment instruments include content validity testing using the Content Validity Ratio (CVR) index, internal consistency of items using the product-moment correlation coefficient formula, instrument reliability using Cronbach's alpha formula, the test of discriminating power of items using Ferguson's formula, test item difficulty level test, and analysis of the quality of the test items using the Graded Response Model approach. The results showed that: (1) The CVR value for each question was 1.00. (2) The correlation index for each item is greater than the r table of 0.254, and the test reliability is 0.941. (3) All items have distinguishing power with very good criteria, and the level of difficulty is on medium or difficult criteria. (4) the results of the probability of students answering correctly using GRM increased from the lowest to the highest student abilities in each item category.