

ABSTRAK

Dinda Asri Sudianto, Nim: 8226165001. Pengembangan Instrumen Asesmen *High Order Thinking Skills* (HOTS) Berbasis *Computerized Assisted Test* (CAT) Untuk Meningkatkan Hasil Belajar Pada Mata Pelajaran Ekonomi

Penelitian ini bertujuan untuk mengevaluasi tingkat kelayakan, keefektifan, dan kepraktisan dari Media asesmen berbasis *Computerized Assisted Test* (CAT) yang dirancang untuk mengukur kemampuan berpikir tingkat tinggi (HOTS) dalam rangka meningkatkan hasil belajar peserta didik pada mata pelajaran Ekonomi. Metode yang digunakan adalah *Research and Development* (R&D) dengan pendekatan pra-eksperimen, menggunakan model pengembangan ADDIE dan desain *One Group Pre-Test and Post-Test Design*. Instrumen pengumpulan data meliputi angket validasi dari ahli, angket tanggapan guru, dan angket tanggapan siswa. Analisis data dilakukan melalui uji validitas dan reliabilitas soal, uji validitas butir soal, serta uji prasyarat berupa uji normalitas dan homogenitas, disertai uji hipotesis terhadap aspek kelayakan, efektivitas, dan kepraktisan. Subjek penelitian adalah peserta didik kelas XI di SMAN 1 Kualuh Hulu. Hasil penelitian menunjukkan bahwa perangkat asesmen HOTS berbasis CAT memiliki tingkat kelayakan yang sangat tinggi. Hasil validasi ahli menunjukkan: ahli materi (94%), ahli media (85%), dan ahli desain pembelajaran (89%) — semuanya masuk dalam kategori sangat layak. Tanggapan guru ekonomi juga tinggi, yakni sebesar 95%. Pada tahap uji coba, diperoleh hasil sebagai berikut: 82% (uji perorangan), 73% (uji kelompok kecil), dan 87% (uji kelompok besar), yang menunjukkan bahwa perangkat ini layak hingga sangat layak. Dari aspek efektivitas, hasil uji t-test menunjukkan nilai signifikansi $0,000 < 0,05$, yang berarti instrumen ini efektif meningkatkan hasil belajar. Dari aspek kepraktisan, perangkat memperoleh skor rata-rata 86 dengan kategori sangat praktis. Selain itu, nilai effect size berdasarkan perhitungan Cohen's d sebesar 6,72 mengindikasikan dampak yang sangat besar. Dengan demikian, dapat disimpulkan bahwa Media asesmen HOTS berbasis CAT ini layak, efektif, dan praktis untuk digunakan dalam meningkatkan hasil belajar siswa pada mata pelajaran Ekonomi kelas XI di SMAN 1 Kualuh Hulu.

Kata Kunci: Instrumen asesmen *High Order Thinking Skills* (HOTS), *Computerized Assisted Test* (CAT), Hasil Belajar

ABSTRACT

Dinda Asri Sudianto, Student ID: 8226165001. Development of CAT (Computer Assisted Test)-Based HOTS Assessment Instruments to Improve Student Learning Outcomes in Economics at Class XI at SMAN 1 Kualuh Hulu.

The purpose of this study was to determine the feasibility, effectiveness and practicality of Computerized Assisted Test (CAT)-based High Order Thinking Skills (HOTS) assessment instruments in economics subjects to improve student learning outcomes. This research is a Research Development (RD) and Pre-Experiment (Pre-experiment Designs) research with the ADDIE model. The research design used in this Pre-experiment is One Group Pre Test-Post Test Design. Data collection instruments used expert validation questionnaires, teacher response questionnaires and student response questionnaires. The data analysis technique uses a question analysis test, namely: validity and reliability tests, item validity tests, prerequisite tests, namely normality tests, and homogeneity tests. Hypothesis testing is feasibility test, effectiveness test and practicality test. The population in this study were students of class XI SMAN 1 Kualuh Hulu. The results showed that the Computerized Assisted Test (CAT)-based High Order Thinking Skills (HOTS) assessment instrument was feasible to use. Based on material expert validation of 94.23% with a very feasible category, media expert validation of 84.62% with a very feasible category, teaching material design expert validation of 88.89% with a very feasible category. Assessment by economics subject teachers of 94.61% with a very feasible category, the results of individual trials of 82.41% with a very feasible category, small group trials of 72.86% with a feasible category and large group trials of 86.96% with a very feasible category. The Computerized Assisted Test (CAT)-based High Order Thinking Skills (HOTS) assessment instrument is effectively used to improve learning outcomes according to the t-test results, where the 2 tailed sig value is $0.000 < 0.05$. And the results of the Computerized Assisted Test (CAT)-based High Order Thinking Skills (HOTS) assessment instrument are practical to use with an average score of 86.37 with a very practical category. And based on the cohen's test to see the effect size obtained a value of 6.72 with very large criteria. Thus, it can be concluded that the Computerized Assisted Test (CAT)-based High Order Thinking Skills (HOTS) assessment instrument is feasible, effective and practical to use to improve the learning outcomes of class XI students of SMAN 1 Kualuh Hulu.

Keywords: Assessment Instruments for Higher-Order Thinking Skills (HOTS) Utilizing Computer-Assisted Testing (CAT), Learning Outcomes