

ABSTRAK

Muhammad Yaziz. 2026. Pengembangan Instrumen Asesmen Keterampilan Siswa Dalam Menggunakan Alat Ukur Panjang. Skripsi. Program Studi Pendidikan Fisika, FKIP, Universitas PGRI Madiun. Pembimbing (I) Dra. Purwandari, M.M., M.Pd., (II) Dr. Erawan Kurniadi, S.Si., M.Pd.

Penilaian keterampilan praktis di sekolah masih sering dilakukan secara umum tanpa instrumen yang terstandarisasi, sehingga belum secara objektif mencerminkan kemampuan siswa. Penelitian ini bertujuan untuk mengembangkan instrumen penilaian keterampilan siswa dalam menggunakan alat ukur panjang serta menentukan validitas dan reliabilitasnya. Jenis penelitian ini adalah Penelitian dan Pengembangan (R&D) dengan menggunakan model ADDIE. Populasi penelitian terdiri dari 10 siswa kelas X SMA Negeri 4 Madiun, sedangkan sampel dipilih melalui pengambilan sampel purposif. Instrumen tersebut terdiri dari lembar observasi berskala Guttman dengan lima indikator keterampilan dalam menggunakan alat ukur panjang. Hasil validasi oleh tiga ahli menunjukkan bahwa instrumen tersebut memiliki validitas tinggi (98,3%). Uji reliabilitas menghasilkan Persentase Kesesuaian sebesar 97,33% (sangat reliabel), sedangkan uji kepraktisan yang dilakukan oleh guru menghasilkan skor 92,3% (sangat praktis). Instrumen ini sesuai untuk menilai keterampilan psikomotorik siswa secara objektif.

Kata kunci: Pengembangan, Instrumen, Asesmen, Keterampilan, Alat Ukur Panjang

ABSTRACT

Muhammad Yaziz. 2026. Development of an Assessment Instrument for Students' Skills in Using Length-Measuring Tools. Thesis. Physics Education Program, Faculty of Teacher Training and Education, PGRI University of Madiun. Advisors: (I) Dra. Purwandari, M.M., M.Pd., (II) Dr. Erawan Kurniadi, S.Si., M.Pd.

The assessment of practical skills in schools is still often conducted in a general manner without standardized instruments, so it does not yet objectively reflect students' abilities. This study aims to develop an assessment instrument for students' skills in using length-measuring instruments and to determine its validity and reliability. The research type is Research and Development (R&D) using the ADDIE model. The population consisted of 10 10th-grade students at SMA Negeri 4 Madiun, and the sample was selected through purposive sampling. The instrument consisted of a Guttman-scaled observation sheet with five indicators of skills in using length-measuring instruments. The results of the validation by three experts indicated that the instrument is highly valid (88.3%). The reliability test yielded a Percentage of Agreement of 97.33% (highly reliable), while the practicality test conducted by teachers yielded a score of 92.3% (highly practical). The instrument is suitable for objectively assessing students' psychomotor skills.

Keywords: Development, Instrument, Assessment, Skills, Length Measuring Tools