ABSTRAK

Siti Nurhafiza, NIM 4223121015 (2026). Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis *Learning Cycle 7E* pada Materi Suhu dan Kalor.

Rendahnya hasil belajar fisika peserta didik, disebabkan karena penggunaan bahan ajar dan model pembelajaran yang masih konvensional, dimana pembelajaran hanya menggunakan bahan ajar berupa buku paket dan model pembelajaran yang membuat peserta didik kurang termotivasi dan kesulitan memahami konsep secara mendalam. Penelitian bertujuan untuk mengembangkan LKPD berbasis *Learning Cycle 7E* yang valid, praktis, dan efektif sehingga mampu meningkatkan hasil belajar peserta didik. Metode penelitian yang digunakan adalah *Research and Development* (R&D) dengan menggunakan model ADDIE yang terdiri dari: *Analysis, Design, Development, Implementation,* dan *Evaluation.* Subjek penelitian terdiri dari 9 peserta didik kelas XI-2 sebagai subjek uji kelompok kecil dan 35 peserta didik kelas XI-1 sebagai uji kelompok besar yang dipilih secara *purposive sampling.* Instrumen penelitian meliputi lembar validasi ahli, angket kepraktisan guru dan peserta didik, serta soal *pretest* dan *posttest.* Hasil validasi oleh ahli materi mendapatkan kriteria valid dengan rata-rata 79%, hasil validasi oleh ahli media mendapatkan kriteria sangat valid dengan rata-rata 87,5%. Uji kepraktisan dilakukan melalui uji kelompok kecil dan uji kelompok besar. Hasil uji kepraktisan LKPD kelompok kecil mendapatkan rata-rata 76%, dan kelompok besar mendapatkan rata-rata 83,1% keduanya termasuk dalam kriteria sangat praktis. Selain itu, hasil uji kepraktisan guru mendapatkan rata-rata 79% dengan kriteria sangat praktis. Uji efektivitas dilakukan melalui *pretest* dan *posttest* untuk mengetahui peningkatan hasil belajar peserta didik. Nilai rata-rata *pretest* sebesar 35,5 meningkat menjadi 89,8 pada *posttest,* dengan perolehan *N-gain* sebesar 0,84 termasuk dalam kriteria tinggi dan melebihi KKTP yang bernilai 75. Dengan demikian, LKPD berbasis *Learning Cycle 7E* pada materi suhu dan kalor dinyatakan valid, praktis, dan efektif, sehingga layak digunakan dalam proses pembelajaran serta dapat meningkatkan hasil belajar peserta didik.

Kata Kunci: LKPD, *Learning Cycle 7E,* ADDIE, Suhu dan Kalor, Hasil Belajar

ABSTRACT

Siti Nurhafiza, NIM 4223121015 (2026). The Development of Student Worksheets (LKPD) Based of Learning Cycle 7E on Heat and Temperature Topics.

The low physics learning outcomes of students are caused by the use of teaching materials and learning models that are still conventional, where learning only uses teaching materials in the form of textbooks and learning models that make students less motivated and have difficulty understanding concepts deeply. This research aims to develop a Student Worksheet (LKPD) based on the 7E Learning Cycle that is valid, practical, and effective so that it is able to improve student learning outcomes. The research method used is Research and Development (R&D) using the ADDIE model which consists of: Analysis, Design, Development, Implementation, and Evaluation. The research subjects consisted of 9 students of class XI-2 as small group test subjects and 35 students of class XI-1 as large group test subjects selected by purposive sampling. Research instruments included expert validation sheets, teacher and student practicality questionnaires, as well as pretest and posttest questions. The results of validation by material experts obtained valid criteria with an average of 79%, the results of validation by media experts obtained very valid criteria with an average of 87,5%. The practicality test was carried out through a small group test and a large group test. The results of the LKPD practicality test for the small group obtained an average of 76%, and the large group obtained an average of 83,1%, both of which were included in the very practical criteria. In addition, the results of the teacher's practicality test obtained an average of 79% with very practical criteria. The effectiveness test was carried out through pretest and posttest to determine the increase in student learning outcomes. The average pretest value of 35,5 increased to 89,8 in the posttest, with an N-gain acquisition of 0.84 included in the high criteria and exceeding the KKTP which is valued at 75. Thus, the LKPD based on the 7E Learning Cycle on the material of temperature and heat is declared valid, practical, and effective, so that it is feasible to be used in the learning process and can improve student learning outcomes.

Keywords: Student Worksheet, Learning Cycle 7E, ADDIE, Heat and Temperature, Learning Outcomes