ABSTRAK

Luthfi, Rahman, 2022. **PENGEMBANGAN LKPD BERBASIS *GUIDED DISCOVERY LEARNING* BERBANTUAN *TRACKER VIDEO ANALYSIS* PADA MATERI KONSERVASI ENERGI MEKANIK**

Lembar kerja peserta didik berbasis *guided discovery learning* berbantuan *tracker video analysis* pada materi konservasi energi mekanik dikembangkan untuk memberikan pengalaman terhadap pembelajaran fisika pada materi konservasi energi mekanik. Tujuan dari penelitian ini untuk menghasilkan produk berupa LKPD berbasis *Guided Discovery* berbantuan *Tracker Video Analysis*. Penelitian ini merupakan penelitian dan pengembangan *Research and Development* (R&D) dengan menggunakan model ADDIE yang terdiri dari 5 tahap; *analyze* (analisis), *design* (desain), *development* (pengembangan), *implementation* (implementasi). Penelitian ini menggunakan data kuantitatif dan data kualitatif. Data kuantitatif merupakan hasil dari lembar validasi dan angket respon peserta didik dan guru. Kemudian untuk data kualitatif berupa saran, komentar dan kritik dari validator mengenai pengembangan LKPD. Teknik pengumpulan data menggunakan wawancara dan observasi. Instrumen yang digunakan berupa lembar validasi kepada 3 validator, ahli media, ahli materi dan ahli bahasa. Penelitian ini dilaksanakan di SMAT Riyadhlul Ulum. Subjek penelitian adalah guru fisika dan siswa kelas X MIPA. Sampel terdiri dari 130 peserta didik yang diambil menggunakan *simple random sampling* dan 2 guru. Teknik analisis data menggunakanan statistik deskriptif untuk menentukan kevalidan dan kepraktisan. Hasil penelitian menunjukkan bahwa nilai rata-rata validasi media sebesar 83% dan dikategorikan sangat valid, validasi materi sebesar 82% dan dikategorikan sangat valid dan validasi bahasa sebesar 77% dan dikategorikan valid. Hasil penilaian kepraktisan oleh peserta didik adalah 80% dengan kategori praktis dan oleh guru adalah 86% sangat praktis.

Kata kunci: *Research and Development*, LKPD, validasi media, validasi materi, validasi bahasa, nilai kepraktisan

ABSTRACT

Luthfi, Rahman, 2022. ***DEVELOPMENT OF STUDENT WORK SHEET (LKPD) BASED ON GUIDED DISCOVERY LEARNING WITH THE ASSISTANCE OF TRACKER VIDEO ANALYSIS ON MECHANICAL ENERGY CONSERVATION MATERIALS***

Student worksheets based on guided discovery learning assisted by tracker video analysis on mechanical energy conservation material were developed to provide experience in learning physics on mechanical energy conservation material. The purpose of this research is to produce a product in the form of Student Worksheets (LKPD) based on Guided Discovery assisted by Tracker video analysis. This research is a Research and Development (R&D) research and development using the ADDIE model which consists of 5 stages; analyze (analysis), design (design), development (development), implementation (implementation). This study uses quantitative data and qualitative data. Quantitative data is the result of validation sheets and student and teacher response questionnaires. Then for qualitative data in the form of suggestions, comments and criticism from the validator regarding the development of LKPD. Data collection techniques use 3 ways; interviews and observations. The instrument used is a validation sheet for 3 validators, media experts, material experts and language experts. This research was conducted at the Riyadhlul Ulum High School. The total population is 193 students from seven class X MIPA with a sampling error of 5%, so the number of samples used for this research is 130 students using simple random sampling. Then Purposive Sampling with the criteria of a physics teacher. Data analysis techniques use descriptive statistics to determine validity and practicality. The results of the study obtained an average validation value given by 3 validators, media experts were 83% in the very valid category, material experts were 82% in the very valid category and linguists were 77% in the valid category. Furthermore, the practicality test for students is 80% in the practical category and for teachers is 86% very practical.

Keywords: Guided Discovery, Video Tracker, LKPD