ABSTRAK

Nurintan Anggrainy, NIM 4192121002 (2023), Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis *Discovery Learning* Berbantuan Software Tracker Untuk Meningkatkan Pemahaman Konsep Peserta Didik Kelas X.

Penelitian ini bertujuan untuk (1) Menghasilkan LKPD berbasis discovery learning berbantuan software tracker yang layak digunakan. (2) Mengetahui keefektifan LKPD berbasis discovery learning berbantuan software tracker. (3) Mengetahui respon guru dan peserta didik MAN 1 Medan terhadap LKPD berbasis discovery learning berbantuan software tracker. Jenis penelitian ini adalah research and development (R&D) dengan memodifikasi 4D. Sampel penelitian berjumlah 36 peserta didik. Instrument yang digunakan adalah angket kelayakan materi LKPD, desain LKPD, kelayakan LKPD berbasis discovery learning, penilaian guru serta peserta didik LKPD yang dikembangkan. Teknik analisis data penelitian ini adalah deskriptif. Hasil validasi diperoleh pengembangan LKPD berbasis discovery learning berbantuan software tracker materi gerak lurus berubah beraturan tingkat kelayakan materi LKPD memperoleh presentase 89%, kelayakan desain LKPD 92% dan kelayakan LKPD berbasis discovery learning 94%. Presentase tersebut memenuhi kriteria kelayakan BSNP dalam kriteria sangat layak. Penilaian peserta didik pada sampel kecil dan besar memperoleh presentase 89,3% dan 92,7% dengan kriteria sangat layak, respon guru bidang studi pada LKPD memperoleh presentase 94% dengan kriteria sangat layak.

Kata Kunci: LKPD, *discovery learning*, gerak lurus berubah beraturan.

ABSTRACT

Nurintan Anggrainy, NIM 4192121002 (2023), Development of Student Worksheets (LKPD) Based on Discovery Learning Assisted by Tracker Software to Increase Student Conceptual Understanding of Class X.

This study aims to (1) Produce worksheets based on discovery learning assisted by tracker software that are feasible to use. (2) Knowing the effectiveness of discovery learning-based worksheets assisted by tracker software. (3) Knowing the response of teachers and students of MAN 1 Medan to LKPD based on discovery learning assisted by tracker software. This type of research is research and development (R&D) by modifying 4D. The research sample consisted of 36 students. The instrument used was a feasibility questionnaire for LKPD material, LKPD design, discovery learning-based LKPD feasibility, assessment of teachers and students of the developed LKPD. The data analysis technique of this research is descriptive. The results of the validation obtained the development of LKPD based on discovery learning assisted by tracker software for material in a straight line changing at regular intervals. This percentage meets the BSNP eligibility criteria in very feasible criteria. The assessment of students in small and large samples obtained percentages of 89.3% and 92.7% with very appropriate criteria, the response of subject teachers to worksheets obtained a percentage of 94% with very feasible criteria.

Keywords: LKPD, *discovery learning*, uniformly changing straight motion