

ABSTRAK

M.Sukron. 2022. Penerapan Lembar Kerja Peserta Didik (LKPD) berbasis metode *problem solving* terhadap kemampuan berpikir kritis peserta didik kelas XI IPA MAN 1 Manggarai. Skripsi. Program Studi Pendidikan Fisika Fakultas Keguruan dan Ilmu Pendidikan Universitas Muhammadiyah Makassar. Pembimbing I Bapak Muhammad Arsyad dan Pembimbing II Ibu Salwa Rufaida.

Penelitian ini bertujuan untuk mengetahui pengaruh Lembar Kerja Peserta Didik (LKPD) berbasis metode *problem solving* terhadap kemampuan berpikir kritis peserta didik kelas XI IPA MAN 1 Manggarai pada materi gelombang mekanik dan gelombang cahaya. Metode penelitian menggunakan *Pre-Eksperiment* dengan desain penelitian *one shot case study design*. Populasi dalam penelitian ini adalah seluruh kelas XI IPA₁ MAN 1 Manggarai. Uji pengembangan instrumen penelitian menggunakan uji validitas, uji realibilitas dan uji normalitas sedangkan uji hipotesis penelitian menggunakan uji t pihak kanan *independent*.

Berdasarkan hasil penelitian didapatkan, rata-rata nilai peserta didik kelas XI IPA₁ MAN 1 Manggarai pada Keterampilan berpikir kritis kelas eksperimen sebesar 83,68. Berdasarkan analisis uji hipotesis pengaruh penerapan metode pembelajaran *problem solving* berbantuan alat pembelajaran LKPD dalam memberdayakan kemampuan berpikir kritis dengan $t_{hitung} = 7,52 > t_{tabel (0,05)} = 1,708$ dari 25 peserta didik, maka dapat disimpulkan bahwa terdapat pengaruh penerapan LKPD berbasis metode *problem solving* terhadap kemampuan berpikir kritis peserta didik MAN 1 Manggarai. Sedangkan pada uji hipotesis kemampuan berpikir kritis peserta didik didapatkan hasil $t_{hitung} = 7,52$ sedangkan $t_{tabel (0,05)} = 1,708$ dari 25 peserta didik maka, dapat disimpulkan bahwa terdapat pengaruh penerapan LKPD berbasis metode *problem solving* terhadap kemampuan berpikir kritis peserta didik MAN 1 Manggarai.

Kata Kunci: Kemampuan Berpikir Kritis, Metode *Problem Solving*, dan LKPD.

Abstract - The application of the Student Worksheet (LKPD) based on the *problem solving* method on the critical thinking skills of students in class XI IPA MAN 1 Manggarai. Thesis. Physics Education Study Program, Faculty of Teacher Training and Education, University of Muhammadiyah Makassar. Supervisor I Mr. Muhammad Arsyad and Supervisor II Mrs. Salwa Rufaida.

This study aims to determine the effect of the Student Worksheet (LKPD) based on the *problem solving* method on the critical thinking skills of students in class XI IPA MAN 1 Manggarai on the matter of mechanical waves and light waves. The research method uses *Pre-Experiment* with a *one shot case study design*. The

population in this study were all class XI IPA1 MAN 1 Manggarai. The research instrument development test used the validity test, the reliability test and the normality test, while the research hypothesis test used an independent righthand t-test.

Based on the results of the study, it was found that the average value of students in class XI IPA1 MAN 1 Manggarai on critical thinking skills in the experimental class was 83.68. Based on the analysis of hypothesis testing the effect of applying problem solving learning methods assisted by LKPD learning tools in empowering critical thinking skills with $t_{count} = 7.52 > t_{table} (0.05) = 1.708$ of 25 students, it can be concluded that there is an effect of applying problem-based worksheets based on the problem method solving the critical thinking skills of MAN 1 Manggarai students. Meanwhile, in the hypothesis test of students' critical thinking skills, the results obtained $t_{count} = 7.52$ while $t_{table} (0.05) = 1.708$ of 25 students, it can be concluded that there is an effect of implementing LKPD based on problem solving methods on critical thinking skills of MAN 1 students. Manggarai.

Keywords: Critical Thinking Ability, Problem Solving Method, and LKP