

## ABSTRAK

MELANIA ERNANDA 2022. **Pengaruh Model *Problem Based Learning* Berbasis *Lesson Study* Terhadap Keterampilan Berpikir Kritis Peserta Didik Pada Materi Sistem Respirasi Manusia (Studi Eksperimen di Kelas XI MIPA SMAN 1 Tasikmalaya Tahun Ajaran 2021/2022)**. Skripsi Jurusan Pendidikan Biologi. Fakultas Keguruan dan Ilmu Pendidikan Universitas Siliwangi.

Penelitian ini bertujuan untuk mengetahui pengaruh model *Problem Based Learning* berbasis *Lesson Study* terhadap keterampilan berpikir kritis peserta didik pada materi sistem respirasi manusia di Kelas XI MIPA SMAN 1 Tasikmalaya Tahun Ajaran 2021/2022 pada materi sistem respirasi manusia. Metode penelitian yang digunakan yaitu *true experiment* dengan desain penelitian *posttest only control design*. Populasi dalam penelitian ini yaitu seluruh kelas XI MIPA SMAN 1 Tasikmalaya sebanyak 8 kelas yang berjumlah 273 siswa. Sampel yang digunakan dalam penelitian ini sebanyak 2 kelas yaitu kelas XI MIPA 8 sebagai kelas eksperimen yang berjumlah 35 siswa dan kelas XI MIPA 7 sebagai kelas kontrol yang berjumlah 33 siswa. Teknik pengambilan sampel dilakukan dengan teknik *cluster random sampling*. Teknik pengumpulan data berupa tes keterampilan berpikir kritis berupa soal uraian berjumlah 15 soal. Instrumen yang digunakan tes keterampilan berpikir kritis pada materi sistem respirasi manusia. Teknik analisis data dilakukan dengan uji prasyarat analisis dan uji hipotesis. Uji prasyarat analisis menggunakan uji Kolmogorov-Smirnov yang diperoleh nilai signifikansi  $0.140 > 0.05$  dan uji Levene yang diperoleh nilai signifikansi  $0.848 > 0.05$ . Uji hipotesis menggunakan uji t independen hasil analisis menunjukkan bahwa  $H_0$  ditolak dengan nilai signifikan diperoleh  $0.023 < 0.05$  sehingga dapat disimpulkan bahwa ada pengaruh model *Problem Based Learning* berbasis *Lesson Study* terhadap keterampilan berpikir kritis peserta didik di Kelas X MIPA SMAN 1 Tasikmalaya Tahun Ajaran 2021/2022 pada materi sistem respirasi manusia.

**Kata Kunci:** *Problem Based Learning*, *Lesson Study*, Berpikir Kritis

## ABSTRACT

MELANIA ERNANDA 2022. **The Effect of Problem Based Learning With Lesson Study on Student's Critical Thinking Skills on the Material of the Human Respiratory System (Experimental Study in Class XI MIPA SMAN 1 Tasikmalaya Academic Year 2021/2022)**. Thesis of Department Biology Education. Faculty of Teacher Training and Education Siliwangi University.

*The aims of this study is to determine the effect of the problem-based learning model based on Lesson Study on the critical thinking skills of students on the human respiratory system material in Class XI MIPA SMAN 1 Tasikmalaya in the 2021/2022 academic year on the human respiratory system material. The research method used is true experiment with posttest only control design. The population in this study were all class XI MIPA SMAN 1 Tasikmalaya as many as 8 classes, which were opened by 273 students. The samples used in this study were 2 classes, namely class XI MIPA 8 as an experimental class which opened 35 students and class XI MIPA 7 as a control class which collected 33 students. The sampling technique was carried out by cluster random sampling technique. Data collection techniques in the form of critical skills tests in the form of a description of 15 things. The instrument used to test critical thinking skills on the material of the human respiratory system. The analysis prerequisite test used Kolmogorov-Smirnov test which obtained a significance value of  $0.140 > 0.05$  and Levene's test which obtained a significance value of  $0.848 > 0.05$ . Hypothesis testing using independent t-test analysis results show that  $H_0$  is rejected with a significant value obtained  $0.023 < 0.05$  so it can be concluded that there is an effect of Lesson Study-based Problem Based Learning model on students' critical thinking skills in Class X MIPA SMAN 1 Tasikmalaya Academic Year 2021/2022 on the material of the human respiratory system.*

**Key Words:** *Problem Based Learning, Lesson Study, Critical Thinking*