

## ABSTRAK

Rida Nurhalimah. 2023. **Pengaruh Model Pembelajaran *Project Based Learning* Dengan Pendekatan Jelajah Alam Sekitar Terhadap Kemampuan Berpikir Kritis Dan Hasil Belajar Siswa Pada Materi Keanekaragaman Hayati (Studi Eksperimen di Kelas X MAN 3 Tasikmalaya Tahun Ajaran 2022/2023)**. Skripsi. Jurusan Pendidikan Biologi. Fakultas Keguruan dan Ilmu Pendidikan. Universitas Siliwangi.

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Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *project based learning* dengan pendekatan jelajah alam sekitar terhadap kemampuan berpikir kritis dan hasil belajar siswa pada materi keanekaragaman hayati di kelas X MIPA MAN 3 Tasikmalaya. Populasi penelitian ini adalah seluruh siswa kelas X MIPA MAN 3 Tasikmalaya tahun ajaran 2022/2023. Sampel diambil secara *purposive sampling* yaitu kelas X MIPA 4 sebagai kelas eksperimen sebanyak 36 peserta didik dan X MIPA 3 sebagai kelas kontrol sebanyak 36 peserta didik. Metode penelitian yang digunakan adalah *quasi experiment* dengan desain penelitian menggunakan *nonequivalent control group posttest-only design*. Instrumen dari penelitian ini adalah kemampuan berpikir kritis diukur melalui test berbentuk soal esai, sedangkan hasil belajar siswa yang diukur adalah ranah kognitif berbentuk soal *multiple choice*. Pada kelas eksperimen menggunakan model pembelajaran *project based learning* dengan pendekatan jelajah alam sekitar, sedangkan pada kelas kontrol menggunakan pendekatan *scientific* dengan model pembelajaran *discovery learning*. Data analisis dengan *Uji Anova One Way*, . Hasil penelitian ini menunjukkan terdapat pengaruh model pembelajaran *project based learning* dengan pendekatan jelajah alam sekitar terhadap kemampuan berpikir kritis dan hasil belajar dibuktikan dengan hasil perhitungan menggunakan *Uji Anova One Way* dengan perolehan nilai signifikansi yaitu sebesar 0,014. Nilai signifikansi tersebut  $< 0,05$ , sehingga dapat disimpulkan tolak  $H_0$  dan terima  $H_a$  yang artinya ada pengaruh model pembelajaran *project based learning* dengan pendekatan jelajah alam sekitar terhadap kemampuan berpikir kritis dan hasil belajar di kelas X MIPA MAN 3 Tasikmalaya.

**Kata Kunci:** *project based learning*, jelajah alam sekitar, kemampuan berpikir kritis, hasil belajar, keanekaragaman hayati.

## ABSTRACT

Rida Nurhalimah. 2023. *The Influence of Project-Based Learning Model with Environmental Exploration Approach on Students' Critical Thinking Skills and Learning Outcomes in Biodiversity Subject (Experimental Study in Class X of MAN 3 Tasikmalaya, Academic Year 2022/2023)*. Thesis. Department of Biology Education. Faculty of Teacher Training and Education. Siliwangi University.

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*This research aims to determine the influence of project-based learning with an environmental exploration approach on students' critical thinking skills and learning outcomes in the biodiversity subject in Class X MIPA (Science) at MAN 3 Tasikmalaya. The population of this study consists of all students in Class X MIPA at MAN 3 Tasikmalaya in the academic year 2022/2023. The sample was selected using purposive sampling, with Class X MIPA 4 as the experimental group, consisting of 36 students, and Class X MIPA 3 as the control group, also consisting of 36 students. The research method used is a quasi-experiment with a nonequivalent control group posttest-only design. The instruments used in this study include a critical thinking ability test in the form of essay questions to measure students' critical thinking skills, and a multiple-choice test to measure their cognitive learning outcomes. In the experimental group, project-based learning with an environmental exploration approach was implemented, while the control group used a scientific approach with a discovery learning model. The data were analyzed using the One-Way ANOVA test. The results of this study indicate that there is an influence of the project-based learning model with an environmental exploration approach on students' critical thinking skills and learning outcomes, as evidenced by the calculation using the One-Way ANOVA test, with a obtained significance value of 0.014. The significance value is  $< 0.05$ , thus it can be concluded that the null hypothesis ( $H_0$ ) is rejected, and the alternative hypothesis ( $H_a$ ) is accepted, indicating that there is an influence of project-based learning with an environmental exploration approach on students' critical thinking skills and learning outcomes in Class X MIPA at MAN 3 Tasikmalaya.*

**Keywords:** *project-based learning, environmental exploration, critical thinking skills, learning outcomes, biodiversity.*