

ABSTRAK

Nurfaliza. 2023. Pengaruh Model *Project-based Learning* terhadap Kemampuan Berpikir Kritis dan Kolaborasi Siswa pada Materi Klasifikasi Makhluk Hidup Kelas VII SMPIT As-Sakinah Tanjungpinang. Skripsi. Program Studi Pendidikan Biologi, Fakultas Keguruan Dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Nur Eka Kusuma Hindrasti, S.Pd., M.Pd. Pembimbing II: Assist. Prof. Dr. Hj. Nevrita, M.Pd., M.Si

Kata Kunci: Berpikir Kritis, Kolaborasi *Project-based Learning*.

Penelitian ini bertujuan untuk mengetahui pengaruh model *Project-based Learning* terhadap kemampuan berpikir kritis dan kolaborasi siswa pada materi klasifikasi makhluk hidup kelas VII SMPIT As-Sakinah Tanjungpinang. Jenis penelitian merupakan penelitian *quasi experimental* dengan pendekatan kuantitatif. Desain penelitian yakni *post-test only nonequivalent control design*. Populasi dalam penelitian adalah seluruh siswa kelas VII SMPIT As-Sakinah Tanjungpinang tahun ajaran 2022/2023. Teknik sampel menggunakan *total sampling* sehingga diperoleh jumlah 65 siswa yang dikelompokkan menjadi kelas eksperimen dan kelas kontrol. Teknik pengumpulan yang digunakan yaitu tes berupa soal uraian untuk mengukur tingkat kemampuan berpikir kritis siswa dan observasi berupa lembar observasi untuk melihat kemampuan kolaborasi siswa. Teknik analisis data yang digunakan yaitu uji prasyarat dan uji hipotesis. Uji prasyarat berupa uji normalitas dan homogenitas. Uji hipotesis yang digunakan berupa uji *Independent Sample t Test*, uji *Mann Whitney U* dan uji Kruskal-Wallis. Berdasarkan analisis hasil uji *Independent Sample t Test* dapat diketahui hasil kemampuan berpikir kritis siswa memiliki pengaruh yang signifikan pada penerapan model *Project-based Learning* terhadap kemampuan berpikir kritis siswa. Berdasarkan uji *Mann Whitney U* diketahui hasil kemampuan kolaborasi siswa diperoleh terdapat pengaruh yang signifikan pada penerapan model *Project-based Learning* terhadap kemampuan kolaborasi siswa. Berdasarkan uji Kruskal-Wallis untuk melihat perbedaan rata-rata dua variabel independen diperoleh terdapat pengaruh yang simultan pada penerapan model *Project-based Learning* terhadap kemampuan berpikir kritis dan kolaborasi siswa.

ABSTRACT

Nurfaliza. 2023. The Effect of the Project-based Learning Model on Students' Critical Thinking and Collaborative Ability in Material Classification of Living Things Class VII SMPIT As-Sakinah Tanjungpinang. Thesis. Biology Education Study Program, Faculty of Teacher Training and Education, Raja Ali Haji Maritime University. Advisor: Assist. Prof. Nur Eka Kusuma Hindrasti, S.Pd., M.Pd. Co Advisor: Assist. Prof. Dr. Hj. Nevrita, M.Pd., M.Si.

Keywords: *Critical Thinking, Collaborative, Project-based Learning.*

This research was intended to test the effect of the Project-based Learning model on students' critical thinking skills and collaboration in class VII material for class VII SMPIT As-Sakinah Tanjungpinang. This type of research was a quasi-experimental research with a quantitative approach. The research was designed as a post-test nonequivalent only control design. The population in the study were all class VII students of SMPIT As-Sakinah Tanjungpinang for the academic year 2022/2023. The collection technique used test and observation. The research instruments were descriptive questions to measure the level of students' critical thinking skills and observation sheets to see students' collaboration abilities. The data analysis technique used prerequisite test and hypothesis test. Prerequisite test in the form of normality and homogeneity tests. The hypothesis test used the Independent Sample t Test, the Mann Whitney U test and the Kruskal-Wallis test. Based on the analysis of the results of the Independent Sample t Test, it can be seen that the results of students' critical thinking skills have a significant effect on the application of the Project-based Learning model to students' critical thinking abilities. Based on the Mann Whitney U test, it was known that the results of students' collaboration abilities show that there was a significant effect on the application of the Project-based Learning model on students' collaboration abilities. Based on the Kruskal-Wallis test to see the average difference of the two independent variables, it was found that there was a simultaneous effect on the application of the Project-based Learning model on critical thinking skills and collaboration.