

## ABSTRAK

**KOKO PRIBADI, NIM 4181141016 (2018). Perbedaan Hasil Belajar Siswa Menggunakan Model Problem Based Learning dan Project Based Learning Pada Materi Fungi di Kelas X SMAN 2 KotaPinang TP. 2022/2023**

Penelitian ini bertujuan untuk mengetahui perbedaan hasil belajar siswa yang diajar menggunakan Model *Problem Based Learning* dengan Model *Project Based Learning* pada Materi Fungi di Kelas X SMAN 2 Kota Pinang TP. 2022/2023. Populasi yang digunakan dalam penelitian ini adalah siswa kelas X IPA 1 (kelas eksperimen I) sebanyak 36 siswa menggunakan metode Luring dan kelas X IPA 2 (kelas eksperimen II) sebanyak 36 siswa menggunakan metode Luring. Sampel kelas dalam penelitian ini ditentukan dengan teknik *random sampling*. Sampel kelas terdiri atas kelas yang diberi pembelajaran dengan menggunakan Model *Problem Based Learning* dan kelas yang diberi pembelajaran dengan menggunakan Model *Project Based Learning*. Teknik pengumpulan data hasil belajar menggunakan metode tes. Teknik analisis data untuk pengujian hipotesis dilakukan dengan menggunakan uji t-dua pihak. Berdasarkan hasil uji persyaratan data, diketahui bahwa data hasil belajar siswa pada kelas Model *Problem Based Learning* dengan Model *Project Based Learning* dinyatakan berdistribusi normal dan memiliki varians yang seragam.

Sementara berdasarkan hasil perolehan hasil belajar siswa terlihat adanya perbedaan yang signifikan dimana rata-rata hasil belajar siswa yang diajar menggunakan model pembelajaran berbasis masalah sebesar 76,94 sedangkan rata-rata hasil belajar siswa yang diajar menggunakan model pembelajaran Langsung sebesar 82,63. Adapun perbedaan hasil belajar siswa yang menggunakan Model *Problem Based Learning* dengan Model *Project Based Learning* sebesar 16,37 %. Adanya perbedaan hasil belajar siswa pada kedua kelas penelitian tersebut dibuktikan melalui uji hipotesis dengan menggunakan uji-t dengan taraf kepercayaan ( $\alpha = 0,05$ ), dimana  $t_{hitung} < t_{tabel}$  yaitu  $-1,850 < 1,667$ , yang berarti  $H_a$  ditolak dan  $H_o$  diterima. Dengan demikian kriteria pengujian hipotesis  $t_{hitung}$  berada dalam daerah kritis tidak terpenuhi. Artinya,  $H_a$  diterima dan  $H_o$  ditolak yang berarti ada perbedaan hasil belajar siswa yang menggunakan Model *Problem Based Learning* dengan Model *Project Based Learning* pada Materi Fungi di kelas X SMAN 2 KotaPinang Tahun Pembelajaran 2022/2023.

**Kata Kunci:** *Problem Based Learning, Project Based Learning, Fungi.*



## ABSTRACT

### **KOKO PRIBADI, NIM 4181141016 (2018). Differences in Student Learning Outcomes Using Problem Based Learning and Project Based Learning Models on Fungi Material in Class X SMAN 2 KotaPinang TP. 2022/2023**

This study aims to determine differences in student learning outcomes taught using the Problem Based Learning Model and the Project Based Learning Model in Fungi Material in Class X of SMAN 2 Kota Pinang TP. 2022/2023. The population used in this study were 36 students in class X IPA 1 (experimental class I) using the offline method and 36 students in class X IPA 2 (experimental class II) using the offline method. The class sample in this study was determined by random sampling technique. The class sample consists of classes that are given learning using the Problem Based Learning Model and classes that are given learning using the Project Based Learning Model. The technique of collecting data on learning outcomes uses the test method. Data analysis techniques for hypothesis testing were carried out using the two-sided t-test. Based on the results of the data requirements test, it is known that the data on student learning outcomes in the Problem Based Learning Model class with the Project Based Learning Model are normally distributed and have uniform variance.

While based on the results of the acquisition of student learning outcomes, there is a significant difference where the average learning outcomes of students who are taught using a problem-based learning model is 76.94 while the average learning outcomes of students who are taught using the Direct learning model is 82.63. The difference in student learning outcomes using the Problem Based Learning Model and the Project Based Learning Model is 16.37%. The existence of differences in student learning outcomes in the two research classes is proven through hypothesis testing using the t-test with a confidence level ( $\alpha = 0.05$ ), where  $t_{count} < t_{table}$  is  $-1.850 < 1.667$ , which means  $H_a$  is rejected and  $H_o$  is accepted. Thus the criteria for testing the  $t_{count}$  hypothesis are in the critical area not fulfilled. This means that  $H_a$  is accepted and  $H_o$  is rejected, which means there are differences in student learning outcomes using the Problem Based Learning Model and the Project Based Learning Model in Fungi Materials in class X SMAN 2 Kota Pinang in the 2022/2023 Academic Year.

**Keywords:** *Problem Based Learning, Project Based Learning, Fungi*

