

ABSTRAK

Prihatni Yoshepine Bangun, NIM 4193131059 (2019). Pengaruh Model *Project Based Learning* Terhadap Hasil Belajar Siswa Kelas XI pada Materi Asam Basa di SMA Negeri 2 Medan.

Penelitian yang dilakukan di SMA Negeri 2 Medan ini bertujuan untuk mengetahui pengaruh model pembelajaran *Project Based Learning* terhadap hasil belajar dan respon siswa pada materi asam basa. Berdasarkan hasil observasi dan wawancara pada siswa dan guru, yang melatar belakangi penelitian ini bahwasanya pembelajaran kimia masih menerapkan guru sebagai pusat pembelajaran dan belum melakukan praktikum, salah satunya karena akibat pandemi Covid-19. Diharapkan dengan menggunakan model ini siswa aktif pada saat proses pembelajaran dan hasil belajar siswa dapat meningkat. Jenis penelitian yang digunakan adalah penelitian eksperimen dengan desain *Pretest-Posttest Control Group Design*. Sampel penelitian yaitu siswa kelas XI IPA 2 yaitu yang diberi perlakuan dengan *model project based learning* (kelas eksperimen) dan kelas XI IPA 1 yaitu yang diberi perlakuan dengan model konvensional (kelas kontrol). Instrumen yang digunakan pada penelitian ini adalah tes untuk mengukur hasil belajar siswa dan angket untuk mengukur respon siswa terhadap model pembelajaran yang telah diberikan. Hasil uji normalitas menunjukkan nilai signifikan t untuk kelas eksperimen dan kelas kontrol sebesar 7 pada α 0,05. Uji homogenitas menunjukkan 1,08 pada α 0,05, yang menunjukkan bahwa data berdistribusi normal dan dengan varians homogen. Hasil uji t pihak kanan diperoleh bahwa nilai signifikan sebesar $(7,35 > 1,669)$ yang artinya $t_{hitung} > t_{tabel}$ maka H_0 ditolak dan H_a diterima. Dari hasil perhitungan dapat disimpulkan bahwa terdapat pengaruh model *project based learning* terhadap hasil belajar siswa pada materi asam basa di SMA Negeri 2 Medan, dimana rata-rata hasil belajar siswa yang dibelajarkan dengan model *project based learning* setelah diberi perlakuan (86,88) secara signifikan lebih tinggi daripada rata-rata hasil belajar siswa yang dibelajarkan dengan model konvensional (76,44), dengan respon siswa menunjukkan hasil yang sangat positif yaitu dengan presentase sebesar 88,33%.

Kata kunci: Model *project based learning*, hasil belajar, reaksi asam basa, respon siswa.

ABSTRACT

Prihatni Yoshepine Bangun, NIM 4193131059 (2019). The Influence of The Project Based Learning Model on Student Learning Outcomes in Grade 11th on Acid-Base Material at SMA Negeri 2 Medan.

The research conducted at SMA Negeri 2 Medan aims to determine the effect of the Project Based Learning learning model on learning outcomes and students' responses to acid-base material. Based on the results of observations and interviews with students and teachers, the background of this research is that chemistry learning still applies the teacher as a learning center and has not yet carried out practicum, one of which is due to the Covid-19 pandemic. It is hoped that by using this model students are active during the learning process and student learning outcomes can increase. The type of research used is experimental research with a pretest-posttest control group design. The research samples were students in class XI IPA 2, namely those who were treated with the project based learning model (experimental class) and class XI IPA 1, namely those who were treated with the conventional model (control class). The instruments used in this study were tests to measure student learning outcomes and questionnaires to measure student responses to the learning model that had been given. The results of the normality test showed a significant value of 7 for the experimental class and 7 for the control class at an alpha of 0,05. The homogeneity test shows 1,08 at an alpha of 0,05, which indicates that the data is normally distributed and with homogeneous variance. The results of the t-test on the right side show that the significant value is ($7,35 > 1,669$), which means that $t_{count} > t_{table}$, then H_0 is rejected and H_a is accepted. From the calculation results, it can be concluded that there is an influence of the project based learning model on student learning outcomes in acid-base material at SMA Negeri 2 Medan, where the average learning outcomes of students taught using the project based learning model after being given treatment (86,88) are significantly higher than the average learning outcomes of students who are taught using the conventional model (76,44), with student responses showing very positive results with a percentage of 88,33%.

Keywords: Project based learning model, learning outcomes, acid-base reactions, student responses.

