

ABSTRAK

Indra Reza Situmeang, NIM : 5163122006. *Pengaruh Model Pembelajaran Problem Based Learning (PBL) Terhadap Hasil Belajar Siswa Pada Mata Pelajaran Pemeliharaan Kelistrikan Kendaraan Ringan Di Kelas XI Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif SMK Negeri 5 Medan Tahun Ajaran 2022/2023. Skripsi.* Fakultas Teknik Universitas Negeri Medan. 2023

Penelitian ini memiliki tujuan untuk mengetahui apakah model pembelajaran *Problem Based Learning* memiliki pengaruh yang signifikan terhadap hasil belajar Mata Pelajaran Pemeliharaan Kelistrikan Kendaraan Ringan Di Kelas XI Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif SMK Negeri 5 Medan Tahun Ajaran 2022/2023. Penelitian ini menggunakan populasi berjumlah 56 orang. Sampel pada penelitian ini ialah siswa kelas XI TKR 1 sebagai kelas eksperimen yang diberi perlakuan model pembelajaran *Problem Based Learning* dan kelas XI TKR 2 sebagai kelas kontrol yang diberi perlakuan model pembelajaran *Discovery Learning*. Instrumen yang digunakan untuk mengetahui hasil belajar adalah tes pilihan ganda dengan jumlah soal 30. Dari hasil penelitian data pre-test dengan rata-rata kelas eksperimen ialah 36,22 dan kontrol ialah 28,84 dan hasil post-test kelas eksperimen diperoleh rata-rata sebesar 85,77 dan standar deviasi 11,67 sedangkan kelas kontrol diperoleh rata-rata nilai post-test sebesar 83,71 dengan standar deviasi 10,72. Pada pengujian normalitas dan homogenitas diperoleh bahwa data pre dan post test berdistribusi normal dan variannya homogen. Dari hasil uji beda nilai kedua kelas diperoleh t_{hitung} sebesar 3,0223 dan t_{tabel} sebesar 2,0032. Karena $t_{hitung} > t_{tabel}$ maka H_0 diterima. Jadi berdasarkan hasil analisis data dapat disimpulkan bahwa ada pengaruh hasil belajar siswa menggunakan model pembelajaran *Problem Based Learning* pada mata pelajaran pemeliharaan kelistrikan kendaraan ringan di kelas XI kompetensi keahlian teknik kendaraan ringan otomotif SMK Negeri 5 Medan Tahun Ajaran 2022/2023.

Kata Kunci : Model, *Problem Based Learning*, Otomotif, Pembelajaran.

ABSTRACT

Indra Reza Situmeang, NIM: 5163122006. *Effect of Problem Based Learning on Learning Outcomes of Electrical Maintenance on Vehicle Subjects in Class XI Students of Vehicle Engineering Expertise Program at SMK Negeri 5 Medan, 2022/2023.* Thesis. Faculty of Engineering, UNIMED. 2023

This study aims to determine whether the Problem Based Learning models have a significant effect on learning outcomes in Electrical Maintenance on vehicle subjects in class XI students of the Light Vehicle Engineering expertise program at SMK Negeri 5 Medan. This study used a population of 56 people. The samples in this study were students of class XI TKR 1 as the experimental class who were treated with the Problem Based learning model and class XI TKR 2 as the control class who were treated with the Discovery Learning learning model. The instrument used to determine the learning outcomes was a multiple choice test with a total of 30 questions. From the results of the research, the pre-test data with the average experimental class was 36.22 and control class was 28.84 and the post-test results for experimental class were obtained. An average of 85.77 and a standard deviation of 11.67, while the control class obtained an average post-test score of 83.71 with a standard deviation of 10.72. In testing for normality and homogeneity, it was found that the pre and post test data were normally distributed and the variants were homogeneous. From the results of the difference test, the value of the two classes obtained t_{count} of 3.0223 and t_{table} of 2.0032. Because $t_{count} > t_{table}$ then H_a is accepted. So based on the results of data analysis, it can be concluded that there is an influence on the learning outcomes of Electrical Maintenance on vehicle work being taught using the Problem Based learning model in class XI students of SMK Negeri 5 Medan for the academic year 2022/2023.

Keywords: Model, Problem Based Learning, Automotive, Learning.