PENGARUH MODEL PEMBELAJARAN *PROJECT BASED LEARNING* TERHADAP KEAKTIFAN DAN HASIL BELAJAR KOGNITIF MATA PELAJARAN PEMELIHARAAN MESIN KENDARAAN RINGAN KELAS XI SMKN 2 YOGYAKARTA

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ABSTRAK

Penelitian ini bertujuan (1) untuk mengetahui pengaruh penggunaan metode *Project Based Learning* terhadap keaktifan siswa mata pelajaran Pemeliharaan Mesin Kendaraan Ringan di SMK N 2 Yogyakarta, (2) untuk mengetahui pengaruh penggunaan metode Project Based Learning terhadap hasil belajar kogntif mata pelajaran Pemeliharaan Mesin Kendaraan Ringan di SMK N 2 Yogyakarta.

Penelitian ini merupakan penelitian eksperimen semu *(quasi experiment)* dengan desain penelitian *pretest-postest control group desain*. Sampel penelitian ini yaitu kelas XI TKRO 3 sebagai kelas kontrol dan kelas XI TKRO 4 sebagai kelas eksperimen. Kelas kontrol diberi perlakuan dengan penerapan model *Project Based Learning* dan kelas kontrol menggunakan model pembelajaran konvensional. Alat pengumpulan data ini berupa tes dan lembar observasi. Untuk mengetahui pengaruh model pembelajaran terhadap keaktifan dan hasil belajar menggunakan analisis *independent sample t-test s*erta analisis deskriptif untuk menggambarkan keaktifan dan hasil belajar siswa.

Hasil penelitian ini menunjukan bahwa hasil *independent sample t-test* untuk hasil belajar diperoleh t hitung > t tabel yaitu 5,285 > 2,201 , maka Ho ditolak dan Ha diterima. Nilai signifikansi hasil pre-test 0.00 < 0,05, maka Ho ditolak dan Ha diterima. Hal ini berarti menyatakan bahwa terdapat perbedaan yang signifikan antara hasil pre-test kelas kontrol dan kelas eksperimen. Hasil uji-t keaktifan siswa diperoleh hasil bahwa t hitung > t tabel yaitu 4,002> 2,201 , maka Ho ditolak dan Ha diterima. Nilai signifikansi t 0.00 < 0,05, maka Ho ditolak dan Ha diterima., Hal ini menyatakan bahwa terdapat perbedaan keaktifan siswa yang signifikan antara kelas kontrol dan kelas eksperimen. Kesimpulannya adalah terdapat pengaruh yang signifikan penggunaan metode *Project Based Learning* terhadap keaktifan dan hasil belajar siswa mata pelajaran Pemeliharaan Mesin Kendaraan Ringan di SMK N 2 Yogyakarta.

Kata Kunci : Model Project Based Learning, Kaeaktifan siswa, Hasil Belajar

THE EFFECT OF PROJECT BASED LEARNING LEARNING MODELS ON ACTIVITIES AND RESULTS OF COGNITIVE LEARNING MAINTENANCE MACHINE LIGHT VEHICLE XI CLASS STATE VOCATIONAL HIGH SCHOOL 2 YOGYAKARTA

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ABSTRACT

This study aims at 1) to determine the effect of using the Project Based Learning method on the activeness of students in Light Vehicle Engine Maintenance subjects in Yogyakarta 2 Vocational High School 2) to determine the effect of using Project Based Learning methods on cognitive learning outcomes in Light Vehicle Engine Maintenance subjects at state Vocational High Schools 2 Yogyakarta.

This research is a quasi-experimental study with a design design pretest-posttest control group design. The sample of this research is class XI TKRO 3 as the control class and class XI TKRO 4 as the experimental class. The control class was treated with the application of the Project Based Learning model and the control class using conventional learning models. This data collection tool is in the form of tests and observation sheets. To determine the effect of the learning model on activeness and learning outcomes using an analysis of independent sample T-tests and descriptive analysis to describe the activeness and learning outcomes of students.

The results of this study indicate that the results of the independent sample T-test for learning outcomes obtained t count> t table that is 5.285> 2.201, then Ho is rejected and Ha is accepted. The significance value of the pre-test results is 0.00 <0.05, then Ho is rejected and Ha is accepted. This means that there are significant differences between the results of the pre-test control class and the experimental class. The results of the t-test of student activity are obtained that t count> t table is 4.002> 2.201, then Ho is rejected and Ha is accepted. Significant value t 0.00 <0.05, then Ho is rejected and Ha is accepted. This states that there are significant differences in student activity between the control class and the experimental class. The conclusion is that there is a significant effect of using the Project Based Learning method on the activeness and learning outcomes of students in Light Vehicle Engine Maintenance subjects at STATE 2 VOCATIONAL SCHOOL, Yogyakarta.

Keywords: Project Based Learning Model, Student Activity, Learning Outcomes