PERBANDINGAN MODEL PEMBELAJARAN *PROBLEM BASED LEARNING* (PBL) DAN *PROJECT BASED LEARNING* (PjBL) TERHADAP PRESTASI BELAJAR DAN MOTIVASI BELAJAR KELAS XI SMA NEGERI 1 KALASAN PADA MATERI POKOK LARUTAN PENYANGGA TAHUN PELAJARAN 2018/2019

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INTISARI

Penelitian ini bertujuan untuk mengetahui perbedaan model pembelajaran *Problem Based Learning* (PBL) dengan *Project Based Learning* (PjBL) terhadap prestasi belajar peserta didik ranah pengetahuan dan motivasi belajar pada materi larutan penyangga. Penelitian ini dilaksanakan menggunakan metode eksperimen. Populasi penelitian adalah seluruh peserta didik kelas XI MIPA SMA Negeri 1 Kalasan dengan jumlah 5 kelas. Sampel penelitian diambil menjadi 2 kelas yang dimana terdiri dari kelas XI MIPA 5 sebagai kelas eksperimen model pembelajaran *Problem Based Learning* (PBL) dan kelas XI MIPA 2 sebagai kelas eskperimen model *Project Based Learning* (PjBL). Teknik pengambilan sampel dilakukan dengan *purposive sampling*. Instrumen yang digunakan pada penelitian ini antara lain : (1) instrumen bentuk tes berupa soal pilihan ganda *posttest* ranah pengetahuan untuk menilai prestasi belajar peserta didik; (2) instrumen bentuk non-tes berupa angket pada motivasi belajar. Teknik perhitungan analisis data penelitian ini menggunakan statistik parametrik yaitu *Independent Sample T-Test*. Berdasarkan hasil penelitian dapat disimpulkan bahwa: (1) Terdapat perbedaan yang signifikan antara model pembelajaran *Problem Based Learning* (PBL) dengan model pembelajaran *Project Based Learning* (PjBL) terhadap prestasi belajar ranah pengetahuan, (2) Terdapat perbedaan yang signifikan antara model pembelajaran antara *Problem Based Learning* (PBL) dengan model pembelajaran *Project Based Learning* (PjBL) terhadap motivasi belajar peserta didik.

Kata Kunci : Model Pembelajaran *Problem Based Learning* (PBL), Model Pembelajaran *Project Based Learning* (PjBL), Prestasi Belajar, Motivasi Belajar, Larutan Penyangga

THE DIFFERENCE OF PROBLEM BASED LEARNING (PBL) AND PROJECT BASED LEARNING (PjBL) TO LEARNING ACHIEVEMENT AND LEARNING MOTIVATION THE GRADE XI SCIENCE IN 1 STATE HIGH SCHOOL KALASAN ABOUT MAIN MATERIAL BUFFER SOLUTION ON LESSON YEAR 2018/2019

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ABSTRACT

The study to determine the difference between the *Problem Based Learning* (PBL) with *Project Based Learning* (PjBL) model on student learning achievement and the realm of knowledge and learning motivation on buffer solution material. This research was carried out using experimental methods. The population of this all students of the class XI Science at SMA Negeri 1 Kalasan with 5 classes. The research sample was taken into 2 classes which consisted of the XI Science 5 as the experimental learning model class of *Problem Based Learning* (PBL) and the XI Science 2 as a experimental model class of *Project Based Learning* (PjBL). The sampling technique carried out by purposive sampling. The instruments used in this research include: (1) The instrument of test are about multiple option to evaluate of knowledge the learning achievement of student; (2) The instrumen of non-test of a questionnaire on motivation learning. This research data analysis technique use parametric statistics that are *Independent Sample T-Test*. Based on the results of the study can be concluded that: (1) There are significant difference between learning model of the Problem Based Learning (PBL) with learning model of the Project Based Learning (PjBL) learning model of knowledge sphere learning performance, (2) There is a significant difference between the learning model between of *Problem Based Learning* (PBL) and the *Project Based Learning* (PjBL) learning model for students. So that the students 'learning outcomes given the Problem Based Learning (PBL) learning model are higher more than learning model of experiment class Project Based Learning (PjBL)

Keywords : *Problem Based Learning* (PBL), *Project Based Learning* (PjBL), Learning Achievement, Learning Motivation, Buffer Solution