

**PERBEDAAN HASIL BELAJAR SISWA YANG DIAJAR MENGGUNAKAN
MODEL PEMBELAJARAN *PROJECT BASED LEARNING* DENGAN
PROBLEM BASED LEARNING PADA MATERI PENCEMARAN
LINGKUNGAN DAN UPAYA MENGATASINYA
DI KELAS X SMA NEGERI 11 MEDAN
TAHUN PEMBELAJARAN 2013/2014**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui perbedaan hasil belajar siswa yang diajar menggunakan model pembelajaran *Project Based Learning* dengan *Problem Based Learning* pada materi pencemaran lingkungan dan upaya mengatasinya di kelas X SMA Negeri 11 Medan Tahun Pembelajaran 2013/2014. Populasi yang digunakan dalam penelitian ini adalah seluruh siswa kelas X SMA Negeri 11 Medan tahun pembelajaran 2013/2014, yaitu sebanyak 10 kelas dengan jumlah siswa seluruhnya sebanyak 360 orang siswa. Sampel diambil secara acak (*random sampling*) sebanyak dua kelas yaitu kelas X₈ sebagai kelas yang diajar menggunakan model pembelajaran *Project Based Learning* dan kelas X₇ sebagai kelas yang diajar menggunakan model pembelajaran *Problem Based Learning* yang masing-masing berjumlah 33 orang siswa, sehingga jumlah sampel dalam penelitian ini sebanyak 66 orang siswa. Jenis penelitian yang dilakukan adalah eksperimen. Hasil penelitian menunjukkan bahwa hasil belajar siswa yang diajar menggunakan Model Pembelajaran *Project Based Learning* adalah 79,30 dengan standar deviasi 10,86, sedangkan hasil belajar siswa yang diajar menggunakan Model Pembelajaran *Problem Based Learning* adalah 77,07 dengan standar deviasi 8,59. Meskipun hasil belajar berbeda, namun hasil uji-t pada taraf $\alpha = 0,05$ menunjukkan tidak ada perbedaan yang signifikan dimana t_{hitung} terletak antara t_{tabel} atau masih didalam daerah penerimaan H_0 ($-1,659 < 0,925 < 1,659$) yang berarti tidak ada perbedaan signifikan antara hasil belajar siswa yang diajar menggunakan model pembelajaran *Project Based Learning* dengan model pembelajaran *Problem Based Learning* pada materi pencemaran lingkungan dan upaya mengatasinya di kelas X SMA Negeri 11 Medan Tahun Pembelajaran 2013/2014.

Kata kunci : *project based learning*, *problem based learning*, hasil belajar, model pembelajaran

**THE DIFFERENCES BETWEEN STUDENT'S LEARNING OUTCOMES
THAT WERE TAUGHT BY USING PROJECT BASED LEARNING
MODEL AND PROBLEM BASED LEARNING MODEL ON TOPIC
OF ENVIRONMENTAL POLLUTION AND EFFORTS TO
OVERCOME IN CLASS X SMA NEGERI 11 MEDAN
IN ACADEMIC YEAR 2013/2014**

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ABSTRACT

This research aimed to determine the differences between student's learning outcomes that were taught by using project based learning model and problem based learning model on topic of environmental pollution and efforts to overcome in class x SMA Negeri 11 Medan in Academic Year 2013/2014, The population of all of the students at class X SMA Negeri 11 Medan in Academic Year 2013/2014, that consisted of 10 classes and total of the students are 360 students. The samples were taken at random sampling of two classes, with details class X₈ using Project Based Learning model and X₇ using Problem Based Learning model and each class numbered 33 students, so the number of samples in this study were 66 students. Type of research is experimental. The results showed that the learning outcomes of students who are taught using Project Based Learning Model is 79.30 with a standard deviation of 10.86, while the learning outcomes of students who are taught using the Problem Based Learning Model Learning is 77.07 with a standard deviation of 8.59. Although learning outcomes, were different the t-test at $\alpha = 0.05$ the results were insignificant, where t_{count} lived between at t_{table} or still in received H_0 domain ($-1,659 < 0,925 < 1,659$) which it mean there was insignificant different from student's learning outcomes who were taught using Project Based Learning model with Problem Based Learning model on topic of environmental pollution and efforts to overcome in class X SMA Negeri 11 Medan in Academic Year 2013/2014.

Key words : project based learning, problem based learning, learning outcomes, learning model