

**PENGARUH MODEL PEMBELAJARAN *PROJECT BASED LEARNING*  
(PjBL) TERHADAP HASIL DAN AKTIVITAS BELAJAR SISWA  
PADA MATERI PENCEMARAN LINGKUNGAN  
DI KELAS X MIA SMAN 6 BINJAI TP 2018-2019**

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Project Based Learning* terhadap hasil dan aktivitas belajar siswa pada materi pokok pencemaran lingkungan kelas X MIA SMAN 6 Binjai TP 2018-2019. Penelitian ini merupakan penelitian eksperimen dimana populasinya adalah seluruh siswa kelas X MIA, Pengambilan sampel penelitian dilakukan secara acak (*Random sampling*). Dua kelas sebagai sampel yaitu kelas X MIA 1 sebagai kelas eksperimen yang diajar menggunakan model pembelajaran *Project Based Learning* dan XI MIA 2 sebagai kelas kontrol yang diajar menggunakan *problem based learning*. Kelas eksperimen berjumlah 35 orang dan kelas kontrol berjumlah 29 orang, sehingga jumlah keseluruhan sebanyak 62 orang. Rata-rata hasil belajar kelas eksperimen sebesar 82,43 dan kelas kontrol 75,69. Uji hipotesis menunjukkan bahwa perhitungan  $t_{hitung} \geq t_{tabel}$  ( $3,404 \geq 1,999$ ) yang berarti  $H_a$  diterima dan  $H_0$  ditolak. Maka, disimpulkan bahwa ada pengaruh hasil belajar siswa yang diajarkan dengan model pembelajaran *Project Based Learning* (PjBL). Untuk perhitungan aktivitas belajar siswa diperoleh rata-rata nilai aktivitas belajar siswa pada kelas eksperimen (89) lebih tinggi dibanding nilai rata-rata kelas kontrol (65,4). Uji hipotesis menunjukkan  $t_{hitung} \geq t_{tabel}$  ( $3,48 \geq 1,99$ ), maka dinyatakan  $H_1$  ditolak dan  $H_2$  diterima. Dengan demikian ada pengaruh model pembelajaran *Project Based Learning* terhadap aktivitas belajar siswa. Maka dari itu, dapat disimpulkan bahwa ada pengaruh model pembelajaran *Project Based Learning* terhadap hasil dan aktivitas belajar siswa pada materi pencemaran lingkungan di kelas X MIA SMAN 6 Binjai TP 2018-2019.

**Kata Kunci:** *Project based learning, hasil dan aktivitas belajar, pencemaran lingkungan.*

**THE EFFECT OF PROJECT BASED LEARNING LEARNING MODELS  
ON STUDENT LEARNING OUTCOMES AND ACTIVITIES IN THE  
SUBJECT MATTER OF ENVIRONMENTAL POLLUTION  
CLASS X MIA SMAN 6 BINJAI TP 2018-2019**

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**ABSTRACT**

This study aims to determine the effect of Project Based Learning learning models on student learning outcomes and activities in the subject matter of environmental pollution class X MIA SMAN 6 Binjai TP 2018-2019. This research is an experimental research where the population is all students of class X MIA. The sampling is done randomly. The two classes as samples were class X MIA 1 as the experimental class which was taught using the Project Based Learning model and XI MIA 2 as the control class taught by using problem based learning. The experimental class is 35 people and the control class is 29 people, so the total number is 62 people. The average learning outcomes of the experimental class amounted to 82.43 and the control class 75.69. Hypothesis testing shows that the calculation of t count abel t table ( $3.404 \geq 1.999$ ) which means  $H_a$  is accepted and  $H_0$  is rejected. So, it was concluded that there was an effect of student learning outcomes taught with the Project Based Learning (PjBL) learning model. For the calculation of student learning activities, the average value of student learning activities in the experimental class (89) is higher than the mean of the control class (65.4). Hypothesis test shows t count abel t table ( $3.48 \geq 1.99$ ), then  $H_1$  is rejected and  $H_2$  is accepted. Thus there is the influence of the Project Based Learning learning model on student learning activities. Therefore, it can be concluded that there is the influence of the Project Based Learning learning model on student learning outcomes and activities in environmental pollution material in class X MIA SMAN 6 Binjai TP 2018-2019.

**Keywords:** *Project based learning, learning result and activity, enviromental pollution.*

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