

## ABSTRAK

**Dini Nazillah Lubis, NIM 4203341008 (2024). Pengaruh Model Pembelajaran Based Learning (PjBL) terhadap Aktivitas dan Hasil Belajar Siswa pada Materi Pencemaran Lingkungan di Kelas X SMA Muhammadiyah 7 Serbelawan Tahun Ajaran 2023/2024.**

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Project Based Learning* terhadap Aktivitas dan Hasil Belajar Siswa pada Materi Pencemaran Lingkungan di Kelas X SMA Tahun Ajaran 2023/2024. Jenis penelitian yang digunakan Quasi Eksperiment, metode yang digunakan dalam penelitian ini adalah dengan desain *Nonequivalent Control Group Design*. Sampel yang digunakan terdiri dari dua kelas berjumlah 72 siswa yang diambil secara *purposive sampling*. Teknik pengumpulan data menggunakan observasi belajar dan soal *pretest* dan *posttest*. Data diolah menggunakan uji *Menn-Whitney* aktivitas belajar siswa dan hasil belajar siswa, diperoleh nilai sig sebesar  $0,018 < 0,05$  terdapat pengaruh model pembelajaran *Project Based Learning* terhadap aktivitas belajar siswa pada materi pencemaran lingkungan. Uji *Menn-Whitney* diketahui hasil belajar dengan signifikan sebesar  $< 0,001$ . Artinya hasil belajar ada perbedaan signifikan

**Kata Kunci:** Project Based Learning, Aktivitas Belajar, Hasil Belajar



## ABSTRACT

Dini Nazillah Lubis, Nim 4203341008 (2024) The Influence of the Learning Based Learning (PjBL) Model on Student Activities and Learning Outcomes on Environmental Pollution Material in Class X of SMA Muhammadiyah 7 Serbelawan in the 2023/2024 Academic Year.

This study aims to determine the Project Based Learning learning model on Student Activities and Learning Outcomes on Environmental Pollution Material in Class X of Senior High School in the 2023/2024 Academic Year. The type of research used is Quasi Experiment, the method used in this study is, with a Nonequivalet Control Group Design. The sample used consisted of two classes totaling 72 students taken by purposive sampling. Data collection techniques use learning observations and pretest and posttest questions. Data collection techniques use observation and pretest and posttest questions. The data was processed using the *Mann-Whitney* test of student learning activities and student learning outcomes, obtained a sig value of  $0,018 < 0,05$  and learning outcomes of  $0,018 < 0,05$  there is an effect of the Project Based Learning learning model on learning activities and student learning outcomes on environmental pollution material *Mann-Whitney* test.

**Keywords:** Project Based Learning, Learning Activities, Learning Outcomes

