

## ABSTRAK

**BOBBY INDRA MARTUA MATONDANG, NIM. 5153111011. Penerapan Model Problem Based Learning Untuk Meningkatkan Hasil Belajar Mata Pelajaran Mekanika Teknik Pada Siswa Kelas X DPIB SMK Negeri 1 Percut Sei Tuan**

Penelitian ini merupakan Penelitian Tindakan Kelas (PTK) yang bertujuan untuk menerapkan model pembelajaran yang dapat meningkatkan Hasil Belajar Mekanika Teknik. Penelitian ini terdiri dari 2 siklus, tiap siklus meliputi perencanaan, pelaksanaan tindakan, observasi, dan refleksi. Penelitian dilakukan di SMK Negeri 1 Percut Sei Tuan, semester 2 tahun ajaran 2019/2020 kelas X DPIB yang terdiri dari 33 siswa.

Data dalam penelitian ini diperoleh melalui hasil pengamatan. Indikator keberhasilan adalah hasil belajar siswa 100% mampu mencapai nilai  $\geq 75$ . Pada uji coba tes hasil belajar siklus I, dari 30 soal diperoleh 22 soal yang valid dari data yang valid uji tingkat kesukaran didapat 13 soal yang mudah, 8 soal yang sedang dan 1 soal yang sulit, uji daya beda soal 2 soal kategori jelek 14 soal kategori sedang 6 soal kategori baik. Sedangkan pada siklus II, dari 30 soal diperoleh 21 soal yang valid, dan uji tingkat kesukaran didapat 10 soal yang mudah 10 soal yang sedang dan 1 soal sulit. Uji daya soal 2 soal kategori jelek 12 soal kategori cukup 7 soal kategori baik.

Hasil penelitian menunjukkan perolehan hasil belajar siswa pada siklus I dengan nilai rata-rata 75,667 dan meningkat pada siklus II dengan nilai rata-rata 83,18 melalui uji T sebesar 10,75324 terjadi peningkatan signifikan sebesar 9,9247%.

Berdasarkan hasil penelitian yang telah dilakukan dapat disimpulkan yang dapat diambil adalah penerapan model pembelajaran *Problem Based Learning* dapat meningkatkan hasil belajar siswa kelas X DPIB mata pelajaran Mekanika Teknik di SMK Negeri 1 Percut Sei Tuan.

**Kata Kunci** : Hasil Belajar, *Model Problem Based Learning (PBL)*, Mekanika Teknik

## ABSTRACT

**BOBBY INDRA MARTUA MATONDANG, ACADEMIC NUMBER. 5153111011. *Application of Problem Based Learning Model to Improve Learning Outcomes of Mechanical Mechanics Subjects in Class X DPIB Students of SMK Negeri 1 Percut Sei Tuan***

This research was a Classroom Action Research (CAR) which aims to implemented a learning model that could improving the learning outcomes of Mechanical of Engineering. This studied consisted of 2 cycles, each cycle including planning, implementing actions, observing, and reflecting. The study was conducted at SMK Negeri 1 Percut Sei Tuan, semester 2 of the 2019/2020 school year class X DPIB consisting of 33 students.

The data in this study were obtained through observations. Indicators of success are 100% student learning outcomes able to achieve a value of  $\geq 75$ . In the first cycle of learning outcomes test trials, from 30 questions obtained 22 valid questions from valid data the difficulty level test obtained 13 easy questions, 8 medium questions and 1 difficult questions, different power test questions 2 bad category questions 14 question medium categories 6 question good categories. Where as in the second cycle, out of 30 questions, 21 valid questions were obtained, and the difficulty level test was obtained 10 easy questions, 10 easy questions, 10 moderate questions and 1 difficult question. Power test questions 2 bad category questions 12 question enough category 7 questions good category. The results showed the acquisition of student learning outcomes in the first cycle with an average value of 75.667 and increased in the second cycle with an average value of 83.18 through the T test of 10.75324 there was a significant increase of 9.9247%.

Based on the results of the research that has been done, it can be concluded that the application of the Problem Based Learning model can improve the learning outcomes of Mechanical Engineering grade X DPIB students in SMK Negeri 1 Percut Sei Tuan.

**Keywords:** Learning Outcomes, Problem Based Learning (PBL) Models, Mechanical Mechanics.