

## ABSTRAK

**Muhammad Rizki, NIM 5202422005 (2025), Pengaruh Model Pembelajaran PBL dan Discovery Learning Terhadap Hasil Belajar Mata Pelajaran Alat Ukur Mekanik Kelas X TKR di SMK Yapim Taruna Marelان.**

Penelitian ini bertujuan untuk mengetahui pengaruh dan perbedaan model pembelajaran *Problem Based Learning* dan *Discovery Learning* terhadap hasil belajar siswa pada materi Alat Ukur Mekanik. Penelitian ini dilaksanakan di SMK Yapim Taruna Marelان pada tahun ajaran 2024/2025 semester ganjil. Jenis penelitian ini adalah *quasi eksperimen* dengan desain pretest-posttest control group design. Populasi dalam penelitian ini adalah seluruh siswa kelas X TKR SMK Yapim Taruna Marelان. Sampel dalam penelitian ini ialah kelas X TKR 1 sebagai kelas eksperimen I yang diajarkan dengan menggunakan model pembelajaran *problem based learning* dan kelas X TKR II sebagai kelas eksperimen II yang diajarkan dengan menggunakan model pembelajaran *discovery learning*. Pengambilan sampel dalam penelitian ini dengan menggunakan (*purposive sampling*). Instrumen dalam penelitian ini adalah tes objektif berbentuk pilihan berganda sebanyak 20 soal yang sudah diuji oleh validator dan telah diuji validitas, tingkat kesukaran, daya beda, reliabilitas. Hasil penelitian menunjukkan bahwa terdapat pengaruh model pembelajaran *problem based learning* terhadap hasil belajar yaitu nilai pretest 44,5 dan nilai posttest 88,83 dan pengaruh *model discovery learning* yaitu nilai pretest 41,83 dan nilai posttest 82,83 serta terdapat perbedaan hasil belajar kelas eksperimen I dan kelas eksperimen II yaitu dengan  $t_{hitung} 3,4843 > t_{tabel} 2,002$ .

**Kata Kunci :** *Problem Based Learning, Discovery Learning, Hasil Belajar*



## **ABSTRACK**

**Muhammad Rizki, NIM 5202422005 (2025), *The Influence of PBL Learning Model and Discovery Learning on the Learning Outcomes of Mechanical Measuring Instruments Subject for Class X TKR at SMK Yapim Taruna Marelان.***

*This study aims to determine the influence and differences of Problem Based Learning and Discovery Learning learning models on student learning outcomes on Mechanical Measuring Instruments. This research was conducted at SMK Yapim Taruna Marelان 2024/2025 school year. This type of research is quasi-experimental with pretest - posttest control group design. The population in this study was all grade X TKR SMK Yapim Taruna Marelان . The sample in this study is class X TKR I as experimental class I which is taught using a problem-based learning model and class X TKR II as an experimental class II which is taught using a discovery learning learning model. Sampling in this study using purposive sampling. The instrument in this study is an objective test in the form of multiple choice as many as 20 questions that have been tested by validators and have been tested for validity, level of difficulty, differentiation, reliability. The results showed that there was an influence of the problem-based learning model on learning outcomes, namely the pretest value of 44.5 and the posttest value of 88.83 and the influence of the discovery learning model, namely pretest 41.83 and posttest value of 82.83 and there were differences in the learning outcomes of experimental class I and experimental class II, namely with a count of 3.4843 > table 2.002.*

**Keywords :** Problem Based Learning, Discovery Learning, Learning Outcomes

