

ABSTRAK

Indah Septianingsih, NIM 4202421008 (2025). Pengaruh Model Pembelajaran *Discovery Learning* Menggunakan Platform Amrita OLABS (Online Labs) Terhadap Hasil Belajar Siswa Pada Materi Pokok Optik Geometri SMA Negeri 13 Medan.

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *discovery learning* menggunakan platform amrita OLABS (online labs) terhadap hasil belajar siswa pada materi pokok optik geometri SMA Negeri 13 Medan. Populasi dalam penelitian ini adalah seluruh siswa kelas XI MIPA SMA Negeri 13 Medan. Metode pengambilan sampel dilakukan dengan Teknik *cluster random sampling*. Instrumen atau Teknik pengumpulan data dalam penelitian ini adalah tes hasil belajar dalam bentuk pilihan ganda sebanyak 20 soal yang terlebih dahulu telah diuji validitasnya. Teknik analisis data yang digunakan adalah uji normalitas, uji homogenitas, dan uji hipotesis menggunakan uji t. Hasil penelitian menunjukkan bahwa hasil belajar yang diajarkan dengan model pembelajaran *discovery learning* menggunakan platform amrita OLABS (online labs) lebih tinggi dari hasil belajar siswa yang diajarkan dengan model pembelajaran konvensional. Hasil uji statistik menunjukkan nilai rata-rata *pretest* hasil belajar siswa yang diajarkan dengan model pembelajaran *discovery learning* menggunakan platform amrita OLABS (online labs) sebesar 35,84 dan rata-rata nilai *posttest* sebesar 82,23, sedangkan nilai rata-rata *pretest* hasil belajar siswa yang diajarkan dengan model pembelajaran konvensional sebesar 36,51 dan rata-rata nilai *posttest* sebesar 77,91. Hasil pengujian hipotesis yang diperoleh nilai sig.(2-tailed) sebesar 0,000 (sig.(2-tailed) < 0,05). Hal ini terbukti bahwa H_0 ditolak yang berarti H_a diterima atau dapat disimpulkan terdapat pengaruh penerapan model pembelajaran *discovery learning* menggunakan platform amrita OLABS pada materi optik geometri terhadap hasil belajar siswa di SMA Negeri 13 Medan.

Kata Kunci : Model Pembelajaran *Discovery Learning*, Platform amrita OLABS, Hasil Belajar

ABSTRACT

Indah Septianingsih, NIM 4202421008 (2025). The Effect of *Discovery Learning Model Using Amrita OLABS Platform (Online Labs)* on Student Learning Outcomes in the Main Material of Geometric Optics at SMA Negeri 13 Medan.

This study aims to determine the effect of the discovery learning model using the Amrita OLABS platform (online labs) on student learning outcomes in the main material of geometric optics at SMA Negeri 13 Medan. The population in this study were all students of class XI MIPA at SMA Negeri 13 Medan. The sampling method was carried out using the cluster random sampling technique. The instrument or data collection technique in this study was a learning outcome test in the form of 20 multiple choice questions that had previously been tested for validity. The data analysis techniques used were normality test, homogeneity test, and hypothesis test using the t-test. The results of the study showed that the learning outcomes taught with the discovery learning model using the Amrita OLABS platform (online labs) were higher than the learning outcomes of students taught with conventional learning models. The results of the statistical test showed that the average pretest value of student learning outcomes taught with the discovery learning model using the amrita OLABS platform (online labs) was 35.84 and the average posttest value was 82.23, while the average pretest value of student learning outcomes taught with the conventional learning model was 36.51 and the average posttest value was 77.91. The results of the hypothesis testing obtained a sig. (2-tailed) value of 0.000 (sig. (2-tailed) <0.05). This proves that H_0 is rejected, which means H_a is accepted or it can be concluded that there is an effect of implementing the discovery learning model using the amrita OLABS platform on geometric optics material on student learning outcomes at SMA Negeri 13 Medan.

Keywords: Discovery Learning Model, Amrita OLABS Platform, Learning Outcomes