

ABSTRAK

Karnina Triana Lubis. NIM 5193111021. Pengaruh Simulator *Auto Level* (AL) Terhadap Hasil Belajar Mata Pelajaran Dasar-Dasar Teknik Konstruksi dan Perumahan Pada Elemen Ukur Tanah Siswa Kelas X TKP diSMK N 2 Medan. Skripsi. Fakultas Teknik-Universitas Negeri Medan. 2024.

Penelitian ini bertujuan untuk mengetahui adanya perbedaan rata-rata hasil belajar siswa yang dibelajarkan dengan Simulator *Auto Level* dan Video mata pelajaran Dasar-dasar Teknik Konstruksi dan Perumahan pada elemen Ukur Tanah kelas X TKP di SMK Negeri 2 Medan. Penelitian ini dilaksanakan di SMK Negeri 2 Medan pada semester genap Tahun Ajaran 2023/2024. Sampel penelitian ditentukan dengan teknik *Cluster Random Sampling* yaitu kelas X TKP 1 sebagai kelas eksperimen 1 untuk perlakuan Simulator *Auto Level* dan kelas X TKP 2 sebagai kelas eksperimen 2 untuk perlakuan Video. Metode penelitian yang digunakan adalah kuasi eksperimen. Uji persyaratan normalitas dengan pendekatan *Liliefors* dan uji homogenitas dengan pendekatan *Levene Statistic*. Teknik analisis data menggunakan Uji t satu pihak dengan taraf signifikan $\alpha = 0,05$. Berdasarkan analisis data diperoleh sig. (2-tailed) $0,04 < \alpha (0,05)$ yang berarti rata-rata hasil belajar siswa menggunakan Simulator *Auto Level* (86,69) lebih tinggi dibandingkan Video (82,41) mata pelajaran Dasar-dasar Teknik Konstruksi dan Perumahan pada elemen Ukur Tanah Siswa Kelas X TKP di SMK N 2 Medan.

Kata Kunci: Simulator *Auto Level* (AL), Hasil Belajar, Dasar-dasar Teknik Konstruksi dan Perumahan.

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ABSTRACT

Karnina Triana Lubis. NIM 5193111021. *The Effect of Auto Level Simulator (AL) on Learning Results of Basic Lessons in Construction and Housing Engineering on Land Measurement Elements of Class X TKP Students in SMK N 2 Medan.* Essay. Faculty of Engineering-State University of Medan. 2024.

The purpose of this study is to ascertain whether the average learning results of students taught utilizing the Auto Level Simulator and Video for the Basic Construction and Housing Techniques subject for the Land Surveying element in class X TKP at SMK Negeri 2 Medan differ from one another. In the second semester of the 2023–2024 school year, this study was carried out at SMK Negeri 2 Medan. With class X TKP 1 acting as experimental class 1 for the Auto Level Simulator treatment and class X TKP 2 acting as experimental class 2 for the Video treatment, the study sample was selected using the Cluster Random Sampling technique. Quasi-experimental research methodology was employed. Use the Levene Statistic technique to test for homogeneity and the Liliefors approach to test for normalcy. A one-tailed t-test with a significance level of $\alpha = 0.05$ was employed in the data analysis method. The data analysis revealed a sig. (2-tailed) value of 0.04, which is smaller than α (0.05). This indicates that for the Basic Construction and Housing Techniques course on the Land Surveying element for 10th-grade TKP students at SMK N 2 Medan, the average learning outcomes of students using the Auto Level Simulator (86.69) were greater than those using Video (82.41).

Keywords: *Auto Level (AL) Simulator, Learning Outcomes, Fundamentals of Construction and Housing Engineering.*

