

ABSTRAK

Fredericus S. R. Purba: Pengaruh Model Pembelajaran *Think Pair Share* (TPS) terhadap Hasil Belajar Siswa pada Elemen Alat Ukur dan Alat Uji Kelistrikan di SMK. Skripsi . Fakultas Teknik Universitas Negeri Medan. 2025

Penelitian ini bertujuan untuk mengetahui perbandingan efektivitas model pembelajaran *Think Pair Share* (TPS) dan *Discovery Learning* terhadap hasil belajar siswa pada elemen alat ukur dan alat uji kelistrikan di SMK. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis *Quasi Experimental Design* dan desain *pretest-posttest control group design*. Sampel penelitian berjumlah 72 siswa yang diambil secara sampling jenuh, terdiri dari dua kelompok: kelompok eksperimen di SMK Negeri 1 Percut Sei Tuan yang diberi perlakuan dengan model TPS, dan kelompok kontrol di SMK Negeri 5 Medan yang menggunakan *Discovery Learning*. Teknik pengumpulan data dilakukan melalui tes objektif (*pretest* dan *posttest*), dan dianalisis menggunakan uji hipotesis. Hasil penelitian menunjukkan bahwa kedua model pembelajaran secara signifikan meningkatkan hasil belajar siswa (sig. 2-tailed = 0,000 < 0,05). Namun, model TPS menunjukkan hasil yang lebih tinggi dibandingkan *Discovery Learning* ($t_{hitung} \approx 2,377 > t_{tabel} = 2,0301$). Dengan demikian, model TPS lebih efektif diterapkan dalam pembelajaran alat ukur dan alat uji kelistrikan dibandingkan *Discovery Learning*.

Kata Kunci: *Think Pair Share*, *Discovery Learning*, alat ukur dan alat uji kelistrikan

ABSTRACT

Fredericus S. R. Purba. *The Influence of the Think Pair Share (TPS) Learning Model on Students' Learning Outcomes in the Topic of Measuring Instruments and Electrical Testing Devices at Vocational High School. Undergraduate Thesis. Faculty of Engineering, State University of Medan. 2025.*

This study aims to compare the effectiveness of the Think Pair Share (TPS) and Discovery Learning models on students' learning outcomes in the topic of electrical measuring and testing instruments at vocational high schools (SMK). This research uses a quantitative approach with a Quasi-Experimental Design and a pretest-posttest control group design. The sample consisted of 72 students selected through a saturated sampling technique, divided into two groups: the experimental group at SMK Negeri 1 Percut Sei Tuan, which received the TPS model treatment, and the control group at SMK Negeri 5 Medan, which used the Discovery Learning model. Data were collected through objective tests (pretest and posttest) and analyzed using hypothesis testing. The results show that both learning models significantly improved students' learning outcomes (sig. 2-tailed = 0.000 < 0.05). However, the TPS model yielded higher results than Discovery Learning ($t_{\text{calculated}} \approx 2.377 > t_{\text{table}} = 2.0301$). Thus, the TPS model is more effective for teaching electrical measuring and testing instruments compared to the Discovery Learning model.

Keywords: Think Pair Share, Discovery Learning, electrical measuring and testing instruments