

ABSTRAK

Oktaviani Margaretha Sagala, NIM 4193311064 (2024), Pengaruh Model Pembelajaran *Discovery Learning* Berbasis *Microlearning* Terhadap Pemahaman Konsep Matematis Siswa SMP Free Methodist 1 Medan.

Penelitian ini bertujuan untuk mengetahui apakah ada pengaruh model *Discovery learning* berbasis *microlearning* terhadap kemampuan pemahaman konsep matematis siswa di kelas VIII SMP Free Methodist 1 Medan. Seluruh kelas VIII SMP Free Methodist 1 Medan T.A 2023/2024 merupakan populasi penelitian. Terpilih satu kelas sebanyak 35 siswa. Pengambilan sampel menggunakan teknik *Purposive sampling*, dimana siswa kelas VIII-2 yang berjumlah 35 siswa yang merupakan kelas eksperimen menggunakan model *discovery learning* berbasis *microlearning*. Sebagai alat pengumpulan data digunakan data *pretest* dan *posttest*. Berdasarkan data *pretest* nilai rata-rata siswa sebesar 36,67 dan nilai rata-rata *posttest* sebesar 77,56. Dengan menggunakan Paired Sampel T Tes, diperoleh nilai nilai t_{hitung} yaitu 83,28 dengan taraf signifikansi $\alpha = 0,05$. Untuk $(dk = 34)$ maka nilai t_{tabel} yaitu 2,032. Diperoleh yaitu $83,28 > 2,032$ maka sesuai dengan kriteria pengujian bahwa H_0 ditolak dan H_1 diterima. Dan pada angket respon siswa diperoleh skor rata-rata keseluruhan aspek 155,2 dengan kategori setuju. Sehingga dapat disimpulkan ada pengaruh model *discovery learning* terhadap Pemahaman Konsep Matematis siswa.

Kata Kunci: Pemahaman Konsep Matematis, Model *Discovery Learning*, *Microlearning*

ABSTRACT

Oktaviani Margaretha Sagala, NIM 4193311064 (2024), Pengaruh Model Pembelajaran *Discovery Learning* Berbasis *Microlearning* Terhadap Pemahaman Konsep Matematis Siswa SMP Free Methodist 1 Medan.

This research aims to determine whether there is an influence of the microlearning-based Discovery learning model on the ability to understand mathematical concepts of students in class VIII of SMP Free Methodist 1 Medan. All class VIII SMP Free Methodist 1 Medan T.A 2023/2024 constitute the research population. One class of 35 students was selected. The sample was taken using a purposive sampling technique, where 35 students in class VIII-2 who were in the experimental class used a microlearning-based discovery learning model. As a data collection tool, pretest and posttest data were used. Based on pretest data, the average student score was 36.67 and the average posttest score was 77.56. By using the Paired Sample T Test, the calculated t_{value} was 83.28 with a significance level of $\alpha = 0.05$. For ($dk = 34$) the t_{table} value is 2.032. It is obtained that $83.28 > 2.032$ means that according to the test criteria, H_0 is rejected and H_1 is accepted. And in the student response questionnaire, the average score for all aspects was 155.2 in the agree category. So it can be concluded that there is an influence of the discovery learning model on students' understanding of mathematical concepts.

Keywords: Understanding Mathematical Concepts, Discovery Learning Model, Microlearning