ABSTRACT

Putri Wulandari Ranggoli, Student ID Number 411419088. "Effect of Discovery Learning Model on Students' Conceptual Understanding of Mathematics in Class VIII at SMP Negeri 8 Gorontalo." Undergraduate Thesis. Gorontalo. Study Program of Mathematics Education, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Gorontalo.

The Supervisors: (1) Novianita Achmad, S.Si., M.Si., (2) Putri Ekawaty Kobandaha, S.Pd., M.Pd.

This is an experimental study that aims to analyze the effect of the Discovery Learning model on students' conceptual understanding of mathematics in Class VIII at SMP Negeri 8 Gorontalo. This study employs an experiment method with a posttest-only control group design. The sample is collected through a simple random sampling technique, resulting in class VIII-5 as the experimental group, taught using the Discovery Learning model, and class VIII-3 as the control group, taught using the direct instruction model. The data are collected using a conceptual understanding test in the form of essays and then analyzed descriptively. The findings reveal that the average score of conceptual understanding taught using the Discovery Learning model is higher (5.54) compared to that taught using the direct instruction model (3.37). Inferentially, hypothesis testing using the t-test shows that $t_{count} > t_{table}$, which is $3.506 > 1.6779$ at a significance level of $\alpha = 0.05$. In conclusion, this study indicates that students' conceptual understanding of mathematics taught using the Discovery Learning model is higher than that taught using the direct instruction model.

Keywords: Discovery Learning Model, Conceptual Understanding

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LEMBAR PENGESAHAN SKRIPSI

Skripsi yang berjudul **"Pengaruh Model Pembelajaran Discovery Learning Terhadap Pemahaman Konsep Matematika Siswa Kelas VIII SMP Negeri 8 Gorontalo"**

Oleh

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NIM. 411419088

Program Studi Pendidikan Matematika
Fakultas Matematika dan Ilmu Pengetahuan Alam
Telah dipertahankan di depan pembimbing dan dewan penguji

Hari/Tanggal   : **Jumat, 13 Juni 2025**
Waktu   : **10.00 – 11.30 WITA**
Tempat   : **Ruang Kuliah 3.4/Via Zoom**

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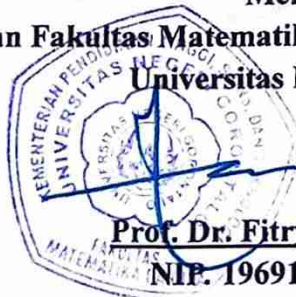   NIP. 199503072022032010

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