

LEMBAR PERSETUJUAN PEMBIMBING

SKRIPSI

PENGARUH PENGGUNAAN MODEL PEMBELAJARAN PROBLEM
BASED INSTRUCTION (PBI) TERHADAP HASIL BELAJAR SISWA
FISIKA UNIT PERPINDAHAN KALOR

Oleh

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LEMBAR PENGESAHAN
SKRIPSI
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Oleh
Sartika S. Puhi
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Telah Dipertahankan Di Depan Dewan Penguji

Hari/Tanggal : Rabu, 02 Maret 2016
Waktu : 09:00 Wita

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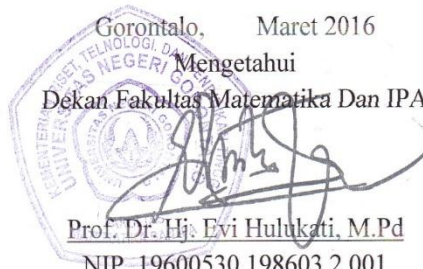
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2. (.....)

Gorontalo, Maret 2016

Mengetahui
Dekan Fakultas Matematika Dan IPA

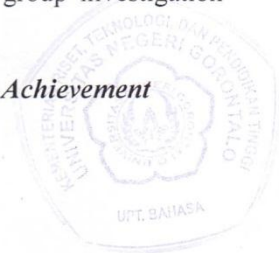

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ABSTRACT

Sartika S. Puhi. 2016. The Influence of the Application of Problem Based Instruction (PBI) Learning Model toward Students' Learning Achievement on Heat Movement Topic of Physics Subject. Skripsi, Study Program of Physics Education, Department of Physics, Faculty of Mathematics and Natural Sciences, State University of Gorontalo.

This research aimed at investigating whether or not there was a difference between learning achievement of students at class taught by problem based instruction and class taught by group investigation learning model. The sampling technique was cluster random sampling with students of class X_1 as experimental class that was taught by problem based instruction learning model and students of class X_2 as control class that was taught by group investigation learning model. The instrument of research was test to measure the students' learning achievement in physics subject in terms of essay test. The data of test were analyzed through statistical analysis namely t test at $\alpha = 0,05$. Thus, it gained $t_{count} (4,37) > t_{table} (2,002)$, therefore zero hypothesis (H_0) was rejected and H_1 was accepted. This indicates that there was a significant difference between learning achievement of students at class taught by problem based instruction learning model and class taught by group investigation learning model on temperature and heat topic.

Keywords: *Problem Based Learning Model, Students' Learning Achievement*



ABSTRAK

Sartika S. Puhi. 2016. Pengaruh Penggunaan Model Pembelajaran Problem Based Intruction (*PBI*) Terhadap Hasil Belajar Siswa Fisika unit Perpindahan Kalor. Skripsi, Program Studi pendidikan Fisika, Jurusan Fisika, Fakultas Matematika Dan Ilmu Pengetahuan Alam, Universitas Negeri Gorontalo.

Penelitian ini bertujuan mengetahui perbedaan hasil belajar antara kelas yang menerapkan model pembelajaran problem based intruction dengan kelas yang menerapkan model pembelajaran group investigation. Pengambilan sampel dilakukan dengan tehnik *cluster random sampling*, siswa kelas X_1 sebagai kelas eksperimen yang menggunakan model pembelajaran problem based intruction (*PBI*) dan siswa kelas X_2 sebagai kelas kontrol yang menggunakan model pembelajaran group investigation. Instrumen yang digunakan yaitu tes untuk mengukur hasil belajar fisika siswa berupa soal-soal tes uraian. Data instrumen tes dianalisis menggunakan analisis statistic yaitu uji t pada taraf $\alpha = 0,05$ diperoleh nilai $t_{hitung} (4.37) > t_{tabel} (2,002)$ sehingga hipotesis nol (H_0) ditolak dan H_1 diterima. Berdasarkan data hasil penelitian menunjukkan bahwa terdapat perbedaan hasil belajar siswa yang menerapkan model pembelajaran problem based intruction dengan yang menerapkan model pembelajaran group investigation.

Kata Kunci : Model Pembelajaran Problem Based Intruction, Hasil Belajar Siswa