

PLAGIAT MERUPAKAN TINDAKAN TIDAK TERPUJI

ABSTRAK

Lusia Ratna Marbangun, Upaya Meningkatkan Kemampuan Mahasiswa Dalam Memecahkan Masalah Fisika..

Program Studi Pendidikan Fisika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta (2006).

Tujuan dari penelitian ini adalah untuk mengetahui : (1) apakah format problem solving Patricia – Kenneth Heller mampu membuat peningkatan kemampuan problem solving pada mahasiswa, (2) apakah format problem solving Patricia – Kenneth Heller mampu membuat peningkatan kemampuan problem solving berdasarkan penggolongan nilai tes masuk USD pada mahasiswa, (3) hubungan antara nilai tes masuk USD dengan kemampuan problem solving, (4) tanggapan mahasiswa terhadap pembelajaran dengan menggunakan metode problem solving.

Populasi dan sampel dalam penelitian ini adalah mahasiswa pendidikan fisika angkatan 2005/2006 Universitas Sanata Dharma Yogyakarta.

Penelitian ini dilaksanakan pada bulan September – November 2005.

Instrumen yang digunakan dalam penelitian ini adalah soal uraian tentang gerak lurus dan parabola, lembar jawab problem solving dengan format Patricia – Kenneth Heller, nilai tes masuk USD, dan soal – soal latihan.

Teknik analisis data yang digunakan adalah (1) untuk mengetahui peningkatan, peneliti menggunakan analisis t-test, (2) untuk mengetahui hubungan nilai tes masuk USD dan kemampuan Problem Solving peneliti menggunakan korelasi Pearson. Kedua analisis tersebut dikerjakan dengan menggunakan program SPSS (versi 10.0).

Hasil penelitian menunjukkan bahwa (1) mahasiswa mengalami peningkatan kemampuan problem solving, (2) berdasarkan penggolongan nilai tes masuk USD, mahasiswa yang memiliki nilai tes masuk rendah, sedang, dan tinggi mengalami peningkatan kemampuan problem solving, sedangkan mahasiswa yang tanpa tes tidak mengalami peningkatan kemampuan problem solving, (3) ada hubungan antara nilai tes masuk USD dengan kemampuan problem solving, (4) tanggapan mahasiswa terhadap pembelajaran dengan menggunakan problem solving dari Patricia – Kenneth Heller sangat positif, karena mahasiswa merasa terbantu dalam memecahkan masalah dan berharap untuk mata kuliah lainnya juga menggunakan metode problem solving.

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ABSTRACT

Lusia Ratna Marbangun, Promoting The Ability to Solve Problem of Physics Among Students.

Physics Education Program, Department of Mathematics and Science Education, Faculty of Teacher Training and Education, Sanata Dharma University, Yogyakarta (2006).

The purpose of this research were to know about : (1) whether problem solving Patricia – Kenneth Heller can make ability problem solving of students increased, (2) whether problem solving Patricia – Kenneth Heller can make ability problem solving of students increased according to value of test in University of Sanata Dharma (USD), (3) The correlation between the value of USD and ability problem solving, (4) Opinion of the students about Problem Solving.

Population and sample were researched were university students of Physics educational 2005/2006 in University of Sanata Dharma Yogyakarta.

The research was performed September until November 2005.

The instrument were used in the research were essay about plane and projectile motion, sheet of answer according to Patricia Kenneth-Heller, value of USD, and exercises.

The researcher used analyses (1) t-test was used to know increasing ability problem solving, (2) Pearson's correlation was used to know correlation between the value of USD and ability problem solving. The researcher did the analyses were helped SPSS program (versi 10.0) in computer.

The result of the analyse showed that (1) ability problem solving increased, (2) Students that have value low, middle, and high of USD increased ability problem solving but the students that no test was not increase ability problem solving, (3) there was correlation between the value of USD and ability problem solving, (4) The opinion of students about studying used problem solving method was positive, because they were feel helped to solved physics problem and they wish the other lesson used problem solving method too.