

## ABSTRAK

**JELITA PANJAITAN NIM. 8156176010. Efek Model *Project Based Learning* (PjBL) Berbasis Kolaboratif Dan Sikap Ilmiah Terhadap Kreativitas Mahasiswa.** Tesis Medan 2017: Program Studi Pendidikan Fisika Pascasarjana Universitas Negeri Medan.

Penelitian ini bertujuan untuk menganalisis apakah kreativitas mahasiswa yang diajarkan dengan model PjBL berbasis kolaboratif lebih baik daripada model direct instruction, untuk menganalisis apakah kreativitas mahasiswa yang memiliki sikap ilmiah di atas rata-rata lebih baik daripada mahasiswa yang memiliki sikap ilmiah di bawah rata-rata, untuk menganalisis apakah ada interaksi antara model PjBL berbasis kolaboratif dengan sikap ilmiah terhadap kreativitas mahasiswa. Penelitian ini merupakan penelitian quasi eksperimen dengan desain faktorial 2x2. Penelitian ini merupakan penelitian quasi eksperimen dengan desain *two group pretest-posttest design*. Populasi penelitian seluruh mahasiswa semester II angkatan TA. 2016/2017 Program Studi Pendidikan Fisika Fakultas Keguruan dan Ilmu Pendidikan Universitas Darma Agung Medan. Sampel dalam penelitian ini diambil secara *cluster random sampling*, yaitu sebanyak 2 kelas berjumlah 64 orang. kelas X-1 sebagai kelas eksperimen yang diajarkan dengan model PjBL berbasis kolaboratif terdiri atas 32 orang mahasiswa, kelas X-2 sebagai kelas kontrol diajarkan dengan model direct instruction terdiri atas 32 orang mahasiswa. Instrumen penelitian ini menggunakan tes essay kreativitas terdiri dari 10 soal dan sikap ilmiah dalam bentuk angket terdiri dari 20 kasus serta telah dinyatakan valid dan reliabili. Data yang dihasilkan dianalisis dengan menggunakan ANAVA dua jalur. Hasil penelitian menunjukkan bahwa kreativitas mahasiswa yang diajarkan model PjBL berbasis kolaboratif lebih baik daripada model direct instruction. kemampuan kreativitas mahasiswa yang memiliki sikap ilmiah diatas rata-rata lebih baik dibandingkan mahasiswa yang memiliki sikap ilmiah di bawah rata-rata. Terdapat interaksi antara model PjBL berbasis kolaboratif dan model direct instruction dengan sikap ilmiah dalam meningkatkan kreativitas mahasiswa.

Kata kunci : Model *Project Based Learning* Berbasis Kolaboratif, Sikap Ilmiah, Kreativitas Mahasiswa

## ABSTRACT

**JELITA PANJAIATAN. NIM. 8156176010.** Effect of Collaborative Based Project Based Learning Model and Scientific Attitudes to Student Creativity. Thesis Field 2017: Postgraduate Physics Education Program State University of Medan.

This study aims to analyze whether the creativity of students who are taught with a collaborative based project based learning model is better than direct instruction model, to analyze whether the student's creativity that has a scientific attitude above the average is better than the students who have below average scientific attitudes To analyze whether there is an interaction between project based learning model based on collaborative and scientific attitude toward student creativity. This research is a quasi experimental research with 2x2 factorial design. This research is a quasi experimental research with two group pretest-posttest design. Research population of all students of second semester of TA. 2016/2017 Physics Education Study Program Faculty of Teacher Training and Education Universitas Darma Agung Medan. The sample in this study was taken by cluster random sampling, that is as much as 2 classes amounted to 64 people. Class X-1 as an experimental class taught with a collaborative based project based learning model consisting of 32 students, X-2 class as control class is taught with direct instruction model consists of 32 students. This research instrument uses essay test of creativity consists of 10 problems and scientific attitude in the form of questionnaire consists of 20 cases and has been declared valid and reliabili. The resulting data were analyzed using two-way ANAVA. The results showed that the creativity of students who are taught a collaborative based project based learning model is better than direct instruction model. Students' creativity skills that have above average scientific attitudes are better than students who have below average attitudes of ilmih. There is an interaction between collaborative based project-based learning model and direct instruction model with scientific attitude in improving student creativity.

*Keywords* : Model *Project Based Learning* Collaborative based, Scientific Attitudes, Student Creativity

