

## ABSTRAK

Hermansyah Sihombing: **Pengaruh *Project Based Learning* Berorientasi *Lesson Study* terhadap Kreativitas dan Hasil Belajar Siswa pada Materi Termokimia di SMA Kelas XI.** Tesis. Medan: Program Studi Pendidikan Kimia Pascasarjana Universitas Negeri Medan, 2016

Penelitian ini bertujuan untuk mengetahui: (1) Untuk mengetahui hasil belajar melalui pembelajaran *Project Based Learning* berorientasi *Lesson Study* lebih tinggi daripada hasil belajar dengan *Direct Instruction*; (2) Untuk mengetahui perbedaan pengaruh tingkat kreativitas tinggi dan rendah terhadap hasil belajar siswa melalui pembelajaran *Project Based Learning* berorientasi *Lesson Study* dan pembelajaran *Direct Instruction*; (3) Untuk mengetahui interaksi antara kedua model pembelajaran dengan tingkat kreativitas terhadap hasil belajar siswa. Teknik pengambilan sampel secara *Purposive Sampling* yang terdiri dari dua kelas yaitu kelas eksperimen I yang dibelajarkan pembelajaran *project based learning* berorientasi *lesson study* sebanyak 72 siswa dan kelas eksperimen II yang dibelajarkan *direct instruction* sebanyak 72 siswa. Instrumen penelitian ini berupa hasil belajar dengan instrument tes berbentuk pilihan ganda dan tes kreativitas dengan angket kreativitas. Telah dilakukakan uji persyaratan berupa uji normalitas, homogenitas, yang diperoleh hasil bahwa data normal dan homogen. Teknik analisis varian dua jalur (*two way ANAVA*). Hasil penelitian menunjukkan bahwa: (1) Hasil belajar siswa yang diajarkan pada pembelajaran *project based learning* berorientasi *lesson study* lebih tinggi daripada *direct instruction* ( $\text{sign.}=0,000 < 0,05$ ); (2) Terdapat pengaruh perbedaan tingkat kreativitas tinggi dan rendah siswa yang dibelajarkan *Project Based Learning* berorientasi *Lesson Study* dan yang dibelajarkan *Direct Instruction* terhadap hasil belajar siswa ( $p=0,000 < 0,05$ ). Siswa dengan tingkat kreativitas tinggi memperoleh rata-rata hasil belajar 0,739 lebih tinggi dibandingkan siswa dengan tingkat kreativitas rendah dengan rata-rata hasil belajar 0,722; (3) Terdapat interaksi antara kedua model pembelajaran dengan tingkat kreativitas tinggi terhadap hasil belajar siswa ( $0,000 < 0,05$ ). Siswa yang memiliki kemampuan kreativitas tinggi yang dibelajarkan model *Project Based Learning* berorientasi *Lesson Study* memiliki rata-rata hasil belajar (0,839) yang lebih tinggi dibandingkan dengan hasil belajar siswa yang dibelajarkan *Direct Instruction* (0,623).

Kata Kunci: *Project Based Learning, Lesson Study, Direct Instruction, Kreativitas Siswa, Hasil Belajar.*

## ABSTRACT

Hermansyah Sihombing: *Effect of Project Based Learning Oriented Lesson Study on Creativity and the Creative Student Learning Outcomes in High School Class XI Thermochemistry*. Thesis. Medan: Study Program of Chemistry, Graduate University of Medan, 2016.

The purpose of this research are: (1) To determine learning outcomes through learning-oriented Project Based Learning Lesson Study is higher than the Direct Instruction learning outcomes; (2) To determine the effect of differences in high and low level of creativity of the student learning outcomes through learning-oriented Project Based Learning Lesson Study and Direct Instruction learning; (3) To understand the interaction between the learning model with the level of creativity of the student learning outcomes. The sampling technique is purposive sampling consisting of two classes of the first experimental class that learned learning-oriented project based learning lesson study as many as 72 students and the experimental class II dibelajarkan direct instruction as many as 72 students. The instrument of this research is the result of learning with test instruments and test multiple choice questionnaire creativity with creativity. Has dilakakukan test requirements in the form of normality test, homogeneity, which showed that the normal data and homogeneous. Mechanical analysis of variance of two lanes (two way ANOVA). The results showed that: (1) the results of student learning taught learning-oriented project based learning lesson study is higher than the direct instruction (sign. = 0.000 <0.05); (2) There is the effect of different levels of high and low reativitas students that learned Project Based Learning oriented and that learned Lesson Study Direct Instruction on student learning outcomes ( $p = 0.000 < 0.05$ ). Students with a high level of creativity earned an average of 0.739 higher learning outcomes than students with low levels of creativity with an average of 0.722 learning outcomes; (3) There are interactions between the two learning models with a high level of creativity to the learning outcomes of students (0,000 <0,05). Students who have high creativity abilities that learned oriented model of Project Based Learning Lesson study had an average of learning outcomes (0.839) higher compared to the learning outcomes of students that learned Direct Instruction (0.623).

Keywords: *Project Based Learning, Lesson Study, Direct Instruction, Student Creativity, Learning Outcomes.*