

## ABSTRAK

Agus Muliaman: **Efektivitas Model *Project Based Learning* Berorientasi *eXe Learning* Berbasis *Kolaboratif* Dan Motivasi Terhadap Hasil Belajar Pada Materi Laju Reaksi**. Tesis. Medan: Program Studi Pendidikan Kimia, Pascasarjana Universitas Negeri Medan, 2018.

Penelitian ini bertujuan untuk mengetahui: 1) perbedaan hasil belajar melalui pembelajaran *Project Based Learning* berorientasi *eXe-Learning* berbasis *Kolaboratif* dan pembelajaran *Direct Instruction* berorientasi *Macromedia Flash*; 2) perbedaan hasil belajar melalui pembelajaran *Project Based Learning* berorientasi *eXe-Learning* berbasis *Kolaboratif* dan pembelajaran *Direct Instruction* berorientasi *Macromedia Flash* pada tingkat motivasi tinggi dan rendah; 3) Interaksi antara kedua model pembelajaran dengan tingkat motivasi terhadap hasil belajar; dan 4) hubungan antara motivasi belajar dengan hasil belajar. Populasi dalam penelitian ini adalah seluruh Mahasiswa FMIPA semester 1 yang mengikuti mata kuliah Konsep Dasar Kimia pada Tahun ajaran 2017/2018. Teknik pengambilan sampel adalah *purposive sampling*. Sampel penelitian ini adalah mahasiswa pada 2 kelas reguler yaitu Kimia dik C dan Matematika dik C. Instrumen penelitian berupa tes objektif hasil belajar yang valid dan reliabel, angket motivasi, dan lembar observasi *kolaboratif* lembar observasi sikap ilmiah. Teknik analisis yang digunakan teknik *Two Way Anova* dan uji *Correlation* pada program SPSS 24. Hasil penelitian disimpulkan bahwa: 1) terdapat perbedaan hasil belajar melalui pembelajaran *Project Based Learning* berorientasi *eXe-Learning* berbasis *Kolaboratif* dan pembelajaran *Direct Instruction* berorientasi *Macromedia Flash* ( $p = 0,003 < 0,05$ ); 2) terdapat perbedaan hasil belajar melalui pembelajaran *Project Based Learning* berorientasi *eXe-Learning* berbasis *Kolaboratif* dan pembelajaran *Direct Instruction* berorientasi *Macromedia Flash* pada tingkat motivasi tinggi dan rendah ( $p = 0,000 < 0,05$ ); 3) terdapat Interaksi antara kedua model pembelajaran dengan tingkat motivasi terhadap hasil belajar ( $p = 0,000 < 0,05$ ); dan 4) terdapat hubungan antara motivasi belajar dengan hasil belajar ( $p = 0,000 < 0,05$ ).

Kata Kunci : *Project Based Learning* (PjBL), *Kolaboratif*, *eXe learning*, Motivasi, Hasil Belajar, Laju Reaksi.

## ABSTRACT

Agus Muliaman: **Effectiveness of Model *Project Based Learning* Oriented *eXe Learning* Based *Collaborative* And Motivation On Learning Outcomes In reaction rate**. Thesis. Medan : Study Program of Chemistry, Graduate University of Medan, 2018.

This study aims to determine: 1) differences in learning outcomes through learning-based Project Based Learning oriented eXe-Learning based *Collaborative* and Direct Instruction oriented Macromedia Flash; 2) differences in learning outcomes through learning-based Project Based Learning oriented eXe-Learning based *Collaborative* and Direct Instruction oriented Macromedia Flash at high and low motivation level; 3) Interaction between the two models of learning with the level of motivation to the learning outcomes; and 4) the relationship between motivation and learning outcomes. The population in this study is all students of FMIPA semester 1 who follow the Basic Concept of Chemistry course in the academic year 2017/2018. The sampling technique is purposive sampling. The sample of this research is the students in the 2 regular classes of Chemistry dik C and Mathematics dik C. Research instrument in the form of objective test of valid and reliable learning result, motivation questionnaire, and collaborative observation sheet of scientific attitude observation sheet. Analytical technique used Two Way Anova technique and Correlation test on SPSS 24 program. The result of this research concluded that: 1) there are differences in learning outcomes through learning-based Project Based Learning oriented eXe-Learning based *Collaborative* and Direct Instruction oriented Macromedia Flash ( $p = 0,003 < 0,05$ ); 2) there are differences in learning outcomes through learning-based Project Based Learning oriented eXe-Learning based *Collaborative* and Direct Instruction oriented Macromedia Flash at high and low motivation level ( $p = 0,000 < 0,05$ ); 3) there is an Interaction between the two models of learning with the level of motivation to the learning outcomes ( $p = 0,000 < 0,05$ ); and 4) there is the relationship between motivation and learning outcomes ( $p = 0,000 < 0,05$ ).

Keywords: *Project Based Learning* (PjBL), *Collaborative*, *eXe Learning*, Motivation, Learning Outcomes, Rate of Reaction.

