ABSTRAK

Arvina Safitri Barus : **Pengaruh Model Mengajar Menginduksi Perubahan Konsep (M3PK) Berbasis *Exelearning* Terhadap Aktifitas Dan Hasil Belajar Hidrokarbon Pada Siswa SMA.** Tesis. Medan : Program Studi Pendidikan Kimia Pascasarjana Universitas Negeri Medan, 2015

Penelitian ini bertujuan untuk mengetahui: (1) Apakah hasil belajar siswa yang dibelajarkan dengan M3PK dan *exe learning* lebih tinggi dibandingkan hasil belajar siswa yang dibelajarkan dengan model konvensional dan *exe learning* (2) Apakah aktifitas belajar siswa yang dibelajarkan dengan M3PK dan *exe learning* lebih tinggi dibandingkan aktifitas siswa yang dibelajarkan dengan model konvensional dan *exe learning.* (3) Apakah terdapat hubungan yang signifikan antara hasil belajar siswa dengan aktifitas siswa. Populasi penelitian ini adalah seluruh siswa kelas X SMA Negeri 14 Medan yang terdiri dari 6 kelas. Teknik penarikan sampel dilakukan dengan teknik acak (random sampling) dan diambil sebanyak 2 kelas dengan 2 (dua) kelompok perlakuan yaitu dengan M3PK Berbasis *Exelearning* dan dengan model konvensional dengan media *Exelearnig*. Instrumen pengumpulan data digunakan tes hasil belajar berbentuk pilihan berganda sebanyak 25 butir soal, serta instrumen data aktifitas siswa digunakan lembar angket. Jenis penelitian ini bersifat quasi eksperiment dengan desain penelitian uji awal dan akhir kelompok control acak (*Randomized Control-Group Only Design.).* Teknik analisa data menggunakan uji –T dengan taraf signifikansi $\alpha = 0,05$. Hasil penelitian menunjukkan bahwa : (1) Hasil belajar siswa yang dibelajarkan dengan M3PK dan *exe learning* lebih tinggi dibandingkan hasil belajar siswa yang dibelajarkan dengan model konvensional dan *exe learning (*diperoleh *Sig: 0,000)* (2) Aktifitas belajar siswa yang dibelajarkan dengan M3PK dan *exe learning* lebih tinggi dibandingkan aktifitas siswa yang dibelajarkan dengan model konvensional dan *exe learning. (*diperoleh *Sig: 0,000)* (3) Terdapat hubungan yang signifikan antara aktifitas siswa dengan hasil belajar siswa. *(*diperoleh *Sig: 0,000)*

Kata Kunci : Model Mengajar Menginduksi Perubahan Konsep (M3PK), *Exe Learning,* Aktifitas siswa, Hasil Belajar.

ABSTRACT

Arvina Safitri Barus: **Effect of Teaching Model Induces Changes in Concept (M3PK) Activity Against Exelearning Based Learning and Results Hydrocarbons In the High School Students**. Thesis.Medan: Chemistry Education Studies Graduate Program, State University of Medan, 2015

This study aims to determine: (1) Is the student learning outcomes that learned with M3PK and learning exe higher than student learning outcomes that learned with the conventional model and exe learning (2) Is the learning activities of students that learned with M3PK and higher learning exe compared to the activity of students that learned with the conventional model and exe learning. (3) Is there a significant relationship between student learning outcomes with student activity. The study population was all students of class X SMA Negeri 14 Medan which consists of 6 classes. The sampling technique was done by using a random (*random sampling*) and taken as many as 2 classes with 2 (two) treatment groups is by M3PK Based Exelearning and with conventional models with Exelearnig media. Data collection instruments used test results to learn as much as 25 multiple-choice items, as well as the instruments used student activity data sheet questionnaire. This research is a quasi experimental study design with test start and end of randomized control group (Randomized Control Group-Only Design.). Data analysis technique using the -T test with significance level $\alpha = 0.05$. The results showed that: (1) The results of student learning that learned with M3PK and learning exe higher than student learning outcomes that learned with the conventional model and exe learning (acquired Sig: 0,000) (2) Activity of student learning that learned with M3PK and exe learning activities of students is higher than that learned with the conventional model and exe learning. (Obtained Sig: 0,000) (3) There is a significant relationship between student activity with student learning outcomes. (Obtained Sig: 0,000)

Keywords: Teaching Model Induces Changes in Concept (M3PK), Exe Learning, Student Activity, Learning Outcomes.