

ABSTRAK

Elfi Carolina Sianipar. Efek Model Pembelajaran Kooperatif Tipe Group Investigation (GI) Berbasis Keterampilan Eksperimen Laboratorium Terhadap Keterampilan Generik Siswa Pada Hukum Newton di kelas X SMA N 4 Tebing Tinggi.

Penelitian ini bertujuan untuk mengetahui : (1) Adanya pengaruh penerapan model pembelajaran kooperatif tipe GI dengan keterampilan laboratorium dan Model DI terhadap peningkatan kemampuan generik sains siswa pada materi hukum Newton.(2). Adanya pengaruh kelompok keterampilan laboratorium tinggi dan kelompok keterampilan laboratorium rendah (3) Interaksi antara model pembelajaran kooperatif GI dengan keterampilan laboratorium terhadap kemampuan generik sains pada materi hukum Newton. Penelitian ini merupakan jenis penelitian quasi eksperimen, dengan desain penelitian two-group pre-test dan post-test. Populasi penelitian ini adalah seluruh siswa kelas X semester I SMA Negeri 4 Medan T.A. 2012/2013 sebanyak 5 kelas (190 orang). Sampel penelitian terdiri dari 2 kelas yaitu kelas X-9 dan kelas X-1 yang diambil secara Cluster random sampling, kelas X-9 diajar dengan model pembelajaran kooperatif tipe GI (kelas eksperimen) dan kelas X-1 diajar dengan model pembelajaran DI (kelas kontrol). Data dianalisis menggunakan SPSS 17, Hasil pengujian hipotesis ANOVA 2 jalur sebagai berikut: (1) Terdapat pengaruh model pembelajaran terhadap kemampuan generik. (2) Terdapat pengaruh keterampilan eksperimen laboratorium terhadap kemampuan generik siswa. (3) Ada interaksi antara model pembelajaran kooperatif tipe GI dan model pembelajaran kooperatif DI dengan keterampilan laboratorium terhadap kemampuan generik. Persen peningkatan hasil belajar untuk kelas eksperimen lebih besar dari pada peningkatan hasil belajar kelas kontrol. Hal ini menunjukkan bahwa adanya perbedaan yang signifikan presentase kemampuan generik sains yang diajar menggunakan model pembelajaran kooperatif tipe GI dengan keterampilan generik yang diajar dengan model pembelajaran DI.

Kata Kunci: model pembelajaran kooperatif tipe GI, DI, keterampilan laboratorium, keterampilan generik.

ABSTRACT

Elfi Carolina Sianipar. NIM 8106176005. Effects of Application Cooperative Learning Group Investigation (GI) Based Laboratory Experimental Action Toward Students Generic Competency On Newton's Law of Motion On Grade X SMA N 4 Tebing Tinggi. Pasca-Bachelor, State University of Medan 2012.

The purposes of this research was: (1) to determine the effect of the application Cooperative Learning Model GI Type toward laboratory competence and DI learning model toward increasing Generic Competence of students on Newton's Law of Motion, (2) to determine the influence between high laboratory competence and low laboratory competence, (3) to determine the interaction between cooperative learning GI type with laboratory competence toward Generic Competence about science on Newton's Law of Motion. This research was quasi experiment, by using two-group pretest and post-test. The population of the research was the entire students grade X SMA Negeri 4 Tebing Tinggi Learning Year 2012/2013 amount of 5 classes (190 students). The sample consist of two class they were class X-9 and class X-1 were taken by Cluster Random Sampling. Class X-9 were taught by using GI Cooperative Learning (experiment class) and class X-1 were taught by using Direct Interaction Learning (control class). The data was analyzed by using SPSS 17, hypothesis result two strip ANOVA showed: (1) there was effect of the application Cooperative Learning Model GI Type toward laboratory competence, (2) there was effect laboratory competence toward Students generic competence, (3) there were interaction between Cooperative Learning GI type and Direct Interaction model in increasing students generic competence outcomes. The percentage students outcomes for experiment class was higher than control class outcomes. These showed that there was significant difference percentage in students generic science competence outcomes which were taught by using Cooperative Learning GI type and by using DI model.

Keywords: Cooperative Learning Model Group Investigation Type, Direct Interaction Learning Model, Laboratory Competence, Science Generic Competence.