

ABSTRAK

Yuna Sutria. “ Pengaruh Model *Problem Based Learning* Berbantuan Media Visual Terhadap Pengetahuan Konseptual Tinggi dan Berpikir Kritis Siswa pada Materi Elastisitas di MAN 3 Medan”. Program Pascasarjana Universitas Negeri Medan, 2017.

Penelitian ini bertujuan untuk : menganalisis peningkatan pengetahuan konseptual tinggi dan kemampuan berpikir kritis siswa dengan menggunakan model pembelajaran *problem based learning* berbantuan media visual dan pembelajaran konvensional, menganalisis apakah peningkatan pengetahuan konseptual tinggi dan kemampuan berpikir kritis siswa yang dibelajarkan dengan model pembelajaran *problem based learning* berbantuan media visual lebih baik daripada siswa yang dibelajarkan dengan pembelajaran konvensional. Penelitian ini merupakan penelitian quasi eksperimen dengan desain *two group pretest-posttest design*. Populasi penelitian terdiri dari sebelas kelas. Sampel dalam penelitian ini yaitu sebanyak 2 kelas berjumlah 80 orang. Kelas X MIA-3 sebagai kelas eksperimen yang diajarkan dengan model pembelajaran *problem based learning* berbantuan media visual terdiri atas 40 orang siswa, kelas X MIA-4 sebagai kelas kontrol yang diajarkan dengan pembelajaran konvensional terdiri atas 40 orang siswa. Instrumen penelitian ini menggunakan tes essay pengetahuan konseptual tinggi dan kemampuan berpikir kritis yang telah dinyatakan valid. Data yang dihasilkan dianalisis dengan menggunakan statistik uji-t. Hasil penelitian menunjukkan bahwa: rata-rata peningkatan pengetahuan konseptual tinggi dan kemampuan berpikir kritis menggunakan model *problem based learning* berbantuan media visual berada pada kategori tinggi dan rata-rata peningkatan pengetahuan konseptual tinggi siswa dan kemampuan berpikir kritis siswa menggunakan pembelajaran konvensional yaitu berada pada kategori sedang. Pengetahuan konseptual tinggi dan kemampuan berpikir kritis fisika siswa menggunakan model pembelajaran *problem based learning* berbantuan media visual lebih baik dibandingkan dengan menggunakan pembelajaran konvensional. Terdapat pengaruh dari model pembelajaran *problem based learning* berbantuan media visual terhadap pengetahuan konseptual tinggi dan kemampuan berpikir kritis fisika siswa.

Kata Kunci : Model *Problem Based Learning*, media visual, Konvensional, Pengetahuan Konseptual Tinggi, Kemampuan Berpikir Kritis.

ABSTRACT

Yuna Sutria. “The Effect Of Problem Based Learning Model Assisted Media Visual To High Conceptual Knowledge And Critical Thinking Ability of Students on Elasticity In MAN 3 Medan. Postgraduate School of State University of Negeri Medan, 2017.

This research aims to ; Analyzing the gain of high conceptual knowledge and critical thinking ability of students by using problem based learning model and conventional learning, Analyzes whether the gain of high conceptual knowledge and critical thinking ability of students that are taught by model learning problem based learning is better than students who are taught by conventional learning. This research is a quasi experiment research with two class pretest-posttest design. The research population is all students of class X MAN 3 Medan semester II academic year 2016/2017. The population for this research are 11 classes. The sample in this research was taken by two random classes consist of 80 students. Class X MIA-3 as an experiment class taught by problem based learning model assisted visual media consist of 40 students, Class X MIA-4 as a control class taught by conventional learning consist of 40 students. The instrument of this research used essay test for high conceptual knowledge and critical thinking ability that has been validated. The resulting data were analyzed using statistic t test. The results showed that: The gain average in the high conceptual knowledge of students taught by the problem based learning model assisted visual media is in high category and using conventional learning is in medium category. The gain average of critical thinking ability students using model problem based learning model assisted visual media is in the high category and using conventional learning is in medium category. The gain average of high conceptual knowledge of students taught by problem based learning model assisted visual media is better than taught by conventional learning. The gain average of critical thinking ability of students taught by problem based learning model assisted visual media is better than taught by conventional learning.

Keywords: *Problem based learning model, high conceptual knowledge, critical thinking ability, Visual Media.*

