

ABSTRAK

PENGARUH MODEL *PROBLEM BASED LEARNING* BERBANTUAN *VIDEO MOTION GRAPHICS* DALAM MENINGKATKAN KETERAMPILAN BERPIKIR KRITIS SISWA PADA MATERI JARINGAN BERBASIS LUAS DI SMK NEGERI 1 TULANG BAWANG TENGAH

Oleh

EMALIA FATMA DIANTI

Penelitian ini bertujuan untuk mendeskripsikan pengaruh model *problem based learning* berbantuan *video motion graphics* dalam meningkatkan keterampilan berpikir kritis siswa pada materi jaringan berbasis luas di SMK Negeri 1 Tulang Bawang Tengah. Pada penelitian ini menggunakan desain penelitian *Non Equivalent Pretest-Posttest Control Group Design*. Teknik pengambilan sampel pada penelitian ini menggunakan teknik sampling jenuh, sehingga seluruh anggota populasi yang berjumlah 61 siswa dijadikan sampel. Teknik pengumpulan data yang digunakan berbentuk tes berupa soal *pretest* dan *posttest* untuk mengukur keterampilan berpikir kritis siswa. Teknik analisis data menggunakan Uji N-Gain, Uji *Independent Sample T-test*, dan Uji *Effect Size*. Nilai rata-rata N-Gain keterampilan berpikir kritis pada kelas eksperimen sebesar 0,71 dengan kategori tinggi, sedangkan kelas kontrol diperoleh sebesar 0,46 dengan kategori sedang. Berdasarkan hasil Uji *Independent Sample T-test* diperoleh nilai Sig. (2 Tailed) $0,001 < 0,05$ maka H_1 diterima. Sehingga, terdapat pengaruh yang signifikan terhadap penerapan model *problem based learning* berbantuan *video motion graphics* dalam meningkatkan keterampilan berpikir kritis siswa. Berdasarkan hasil Uji *Effect Size* diperoleh hasil sebesar 0,869 dengan kategori “besar”. Sehingga, dapat dikatakan bahwa pembelajaran dengan menerapkan model *problem based learning* berbantuan *video motion graphics* memiliki pengaruh yang sangat besar dalam meningkatkan keterampilan berpikir kritis siswa pada materi jaringan berbasis luas.

Kata kunci : *problem based learning*, *motion graphics*, keterampilan berpikir kritis, jaringan berbasis luas

ABSTRACT

THE EFFECT OF PROBLEM BASED LEARNING WITH THE ASSISTANCE OF VIDEO MOTION GRAPHICS IN IMPROVING STUDENTS' CRITICAL THINKING SKILLS IN WIDE AREA NETWORK COURSE MATERIAL AT SMK NEGERI 1 TULANG BAWANG TENGAH

By

EMALIA FATMA DIANTI

This study aims to describe the effect of the problem based learning model assisted by video motion graphics in improving students' critical thinking skills in wide area network course material at SMK Negeri 1 Tulang Bawang Tengah. In this study, the non-equivalent pretest-posttest control group design was used. The sampling technique in this study used a saturated sampling technique, so that all members of the population, totaling 61 students, were sampled. The data collection technique used was in the form of tests in the form of pretest and posttest questions to measure students' critical thinking skills. Data analysis techniques used the N-Gain Test, Independent Sample T-test, and Effect Size Test. The average value of N-Gain for critical thinking skills in the experimental class was 0.71 in the high category, while the control class was 0.46 in the medium category. Based on the results of the Independent Sample T-test, the value of Sig. (2 Tailed) $0.001 < 0.05$ then H_1 is accepted. Thus, there is a significant influence on the application of the problem-based learning model assisted by video motion graphics in improving students' critical thinking skills. Based on the results of the Effect Size Test, a result of 0.869 was obtained in the "large" category. So, it can be said that learning by applying the problem based learning model assisted by video motion graphics has a very big influence in improving students' critical thinking skills in broad-based network material.

Keywords : *problem based learning, motion graphics, critical thinking skills, wide area network*