

ABSTRAK

Gabriella Elsa Suryacitra, 2018. Efektivitas Penerapan Model Pembelajaran *Flipped Classroom* di Kelas X MIPA SMA Negeri 1 Karanganom Tahun Ajaran 2017/2018 pada Materi Vektor.

Penelitian ini bertujuan untuk 1) Mengetahui penerapan model *Flipped Classroom* dalam pembelajaran matematika pada materi vektor terhadap hasil belajar siswa kelas X MIPA SMA Negeri 1 Karanganom; 2) Mengetahui penerapan model *Flipped Classroom* dalam pembelajaran matematika pada materi vektor terhadap motivasi belajar siswa kelas X MIPA SMA Negeri 1 Karanganom; 3) Mengetahui efektivitas penerapan model *Flipped Classroom* dalam pembelajaran matematika pada materi vektor di kelas X MIPA SMA Negeri 1 Karanganom ditinjau dari hasil belajar dan motivasi belajar siswa.

Jenis penelitian yang digunakan adalah penelitian eksperimen kuasi. Sampel dalam penelitian ini adalah 33 siswa kelas X MIPA 6 dan 34 siswa kelas X MIPA 5. Teknik pengumpulan data dengan menggunakan tes hasil belajar berupa *pre test* dan *post test*, penyebaran angket motivasi belajar, dan observasi pembelajaran. Tes hasil belajar digunakan untuk mengetahui tingkat penguasaan siswa sebelum dan sesudah dilaksanakan pembelajaran. Angket motivasi belajar digunakan untuk memperoleh data motivasi belajar siswa dalam pembelajaran materi vektor. Observasi pembelajaran digunakan untuk mengetahui keterlaksanaan proses pembelajaran berdasarkan aktivitas guru dan siswa.

Berdasarkan analisis tes hasil belajar dengan menggunakan uji t, diperoleh nilai $t_0 = 1,688$ sedangkan $t_\alpha = 1,669$, sehingga $t_0 > t_\alpha$ dan dapat disimpulkan bahwa hasil belajar siswa kelas eksperimen lebih tinggi dari kelas kontrol. Berdasarkan analisis motivasi belajar siswa dengan menggunakan uji selisih dua proporsi diperoleh nilai $z = 1,7434$ sedangkan $z_\alpha = 1,6449$, sehingga $z > z_\alpha$ dan dapat disimpulkan bahwa proporsi siswa termotivasi pada kelas eksperimen lebih tinggi dari kelas kontrol. Hasil penelitian menunjukkan bahwa penerapan model *Flipped Classroom* dalam pembelajaran matematika pada materi vektor efektif ditinjau dari hasil belajar dan motivasi belajar siswa di kelas X MIPA SMA Negeri 1 Karanganom Tahun Ajaran 2017/2018.

Kata kunci: efektivitas, *Flipped Classroom*, hasil belajar, motivasi belajar, vektor

ABSTRACT

Gabriella Elsa Suryacitra, 2018. Effectiveness of Application of Flipped Classroom Learning Model in Class X MIPA SMA Negeri 1 Karanganom Academic Year 2017/2018 on Vector Material.

This study aimed to 1) Know the application of Flipped Classroom model in the mathematics learning on vector materials towards (the student's study result) of class X MIPA SMA Negeri 1 Karanganom; 2) Know the application of Flipped Classroom model in mathematics learning on vector material in learning motivation of grade X students of MIPA SMA Negeri 1 Karanganom; 3) Know the effectiveness of the application of Flipped Classroom model in mathematics learning on vector material in class X MIPA SMA Negeri 1 Karanganom viewed from the learning result and student's learning motivation.

The type of research used is quasi experimental research (this research used quasi experimental research). The Samples in this research were 33 students of class X MIPA 6 and 34 students of class X MIPA 5. Technique of data collecting (the data collecting technique was using) the learning test result, in the form of pre test and post test, questionnaire of motivation to learn, and observation of learning. The learning test result was used to know the level of mastery of students before and after the learning. the learning motivation questionnaire was used to obtain student's motivation data in learning vector material. The learning observation sheet was used to determine the implementation of the learning process based on the teacher and the student activities.

Based on the analysis of test results using t test, obtained value $t_0 = 1,688$ while $t_\alpha = 1,669$, so $t_0 > t_\alpha$ and it can be concluded that the student's learning result in the experimental class is higher than the control class. Based on the analysis of student learning motivation by using the test of difference of two proportions obtained value of $z = 1,7434$ while $z_\alpha = 1,6449$, so $z > z_\alpha$ and it can be concluded that the proportion of student's motivated in the experimental class is higher than the control class. The result of this research showed that the application of Flipped Classroom model in mathematics learning on effective vector material was seen by the learning outcomes and student's learning motivation in class X MIPA SMA Negeri 1 Karanganom Academic Year 2017/2018.

Keywords: effectiveness, Flipped Classroom, learning result, learning motivation, vector