ABSTRAK

Nadya Suciati Fauziah. "Penerapan Pembelajaran Kooperatif *Group to Group Exchange (GGE)* berbantuan Aplikasi *Quizizz* terhadap Peningkatan Kemampuan Penalaran Matematis Siswa".

Salah satu upaya untuk meningkatkan kemampuan penalaran matematis siswa adalah menggunakan model Pembelajaran *Group to Group Exchange (GGE)* berbantuan Aplikasi *Quizizz*. Penelitian ini menggunakan metode kuasi eksperimen dengan tujuan untuk mengetahui perbedaan peningkatan kemampuan penalaran matematis, perbedaan pencapaian kemampuan penalaran matematis berdasarkan tingkat PAM (tinggi, sedang, rendah), serta mengetahui sikap siswa terhadap pembelajaran *GGE* berbantuan Aplikasi *Quizizz*. Pengambilan sampel menggunakan teknik *purposive sampling*, sehingga diperoleh sampel kelas X OTKP (Otomatisasi dan Tata Kelola Perkantoran) 1 menggunakan model pembelajaran *GGE* berbantuan Aplikasi *Quizizz* serta kelas X OTKP (Otomatisasi dan Tata Kelola Perkantoran) 2 menggunakan model pembelajaran konvensional. Instrumen yang digunakan yaitu tes PAM, tes kemampuan penalaran matematis, dan lembar skala sikap. Temuan yang diperoleh dari hasil penelitian yaitu: (a) terdapat perbedaan peningkatan kemampuan penalaran matematis antara siswa yang menggunakan pembelajaran *GGE* berbantuan Aplikasi *Quizizz* dan konvensional; (b) terdapat perbedaan pencapaian kemampuan penalaran matematis antara siswa yang menggunakan pembelajaran *GGE* berbantuan Aplikasi *Quizizz* dan konvensional berdasarkan tingkat PAM; serta (c) pada umumnya siswa memberikan sikap yang positif terhadap pembelajaran *GGE* berbantuan Aplikasi *Quizizz*.

Kata Kunci: Pembelajaran *GGE*, Aplikasi *Quizizz*, Penalaran Matematis

ABSTRACT

Nadya Suciati Fauziah. "The Application of Group to Group Exchange (GGE) Cooperative Learning with the Quizizz Application for Improving Students' Mathematical Reasoning Ability".

One of the efforts to improve students' mathematical reasoning skills is to use the Group to Group Exchange (GGE) learning model with the help of the Quizizz application. This study uses a quasi-experimental method with the aim of knowing the differences in the improvement of mathematical reasoning abilities, differences in the achievement of mathematical reasoning abilities based on the level of PAM (high, medium, low), and knowing student attitudes towards learning GGE assisted by the Quizizz application. Sampling using purposive sampling technique, in order to obtain a sample class X OTKP (Automation and Office Management) 1 using the GGE learning model assisted by the Quizizz application and class X OTKP (Office Automation and Management) 2 using conventional learning models. The instruments used were the PAM test, mathematical reasoning ability tests, and attitude scale sheets. The findings obtained from the research results are: (a) there are differences in the increase in mathematical reasoning abilities between students who use GGE learning assisted by Quizizz and conventional applications; (b) there are differences in the achievement of mathematical reasoning abilities between students who use the Quizizz Application-assisted GGE learning and conventional learning based on the PAM level; and (c) generally the students gave a positive attitude towards GGE learning assisted by the Quizizz application.

Keywords: GGE Learning, Quizizz Application, Mathematical Reasoning