

ABSTRAK

Salwa Dwi Ratna (8166175020). Pengaruh *Guided Inquiry Learning* Berbantuan Simulasi Komputer Terhadap Keterampilan Berpikir Kritis dan Kreatif Fisika Siswa SMA. Postgraduate Program, State University of Medan, 2020.

Penelitian ini bertujuan untuk menganalisis pengaruh *guided inquiry learning* berbantuan simulasi komputer terhadap keterampilan berpikir kritis dan kreatif siswa pada materi fluida statis. Jenis penelitian adalah *quasi experiment* dengan desain *three group pretest-posttest*. Populasi penelitian adalah seluruh siswa kelas XI IPA SMA Al-Ulum Medan semester I Tahun Ajaran 2019/2020. Teknik pengambilan sampel menggunakan *cluster random sampling* dan diperoleh tiga kelas, kelas pertama adalah kelas eksperimen I menggunakan *guided inquiry learning* berbantuan simulasi, kelas kedua adalah kelas eksperimen II menggunakan *guided inquiry learning* tanpa berbantuan simulasi, dan kelas ketiga adalah kelas kontrol menggunakan pembelajaran konvensional. Instrumen yang digunakan untuk mengukur keterampilan berpikir kritis dan kreatif siswa berupa soal uraian masing-masing terdiri dari 5 soal yang sudah divalidasi. Data pretes dan postes dianalisis dengan menggunakan uji manova. Hasil penelitian menunjukkan bahwa *guided inquiry learning* berbantuan simulasi komputer berpengaruh secara signifikan terhadap keterampilan berpikir kritis dan kreatif siswa. Keterampilan berpikir kritis dan kreatif siswa dengan *guided inquiry learning* berbantuan simulasi komputer lebih baik dibandingkan dengan keterampilan berpikir kritis dan kreatif siswa dengan *guided inquiry learning* tanpa berbantuan simulasi komputer dan pembelajaran konvensional.

Kata Kunci : *guided inquiry learning*, simulasi komputer, keterampilan berpikir kritis, keterampilan berpikir kreatif



ABSTRACT

Salwa Dwi Ratna (8166175020). The Effect of Computer Simulation Assisted Guided Inquiry Learning on High School Students' Critical and Creative Thinking Skills. Program Studi Pendidikan Pascasarjana Universitas Negeri Medan, 2020.

This study aims to analyze the effect of guided inquiry learning assisted by computer simulations on student's critical and creative thinking skills on the topic of static fluid. This type of research is a quasi experiment with a three group pretest-posttest design. The study population was all students of class XI IPA SMA Al-Ulum Medan semester I of the 2019/2020 academic year. The sampling technique used cluster random sampling and obtained three classes, the first class was the experimental class I using simulation-assisted guided inquiry learning, the second class was the experimental class II using guided inquiry learning without simulation assistance, and the third class was the control class using conventional learning. The instrument used to measure student's critical and creative thinking skills was in the form of description questions each consisting of 5 validated questions. Pretest and posttest data were analyzed using the Manova test. The results showed that guided inquiry learning assisted with computer simulations had a significant effect on student's critical and creative thinking skills. Student's critical and creative thinking skills with guided inquiry learning assisted by computer simulations were better than student's critical and creative thinking skills with guided inquiry learning without the assistance of computer simulations and conventional learning.

Keywords : guided inquiry learning, computer simulation, critical thinking skills, creative thinking skills

