

**THE EFFECT OF THE COLLABORATIVE CREATIVITY LEARNING MODEL
USING PHET SIMULATION ON STUDENTS' SCIENCE PROCESS SKILLS ON
SIMPLE ELECTRICAL CIRCUIT MATERIALS.**

Wanti¹, Dr.Fitri Oviyanti,M.Ag², Faizatul Mabruroh,M.Pd³

¹²³ Physics Education, Faculty of Tarbiyah and Teacher Training, Raden Fatah State

Islamic University Palembang

¹Email: Wanti097@gmail.com

ABSTRACT

This study aims to determine the effect of the collaborative creativity learning model assisted by PhET simulation on simple electrical circuit material at SMA Negeri 1 Talang Ubi and to determine whether there is a significant effect of the collaborative creativity learning model on improving students' science process skills. This study uses a quasi-experimental research with a Nonequivalent Control Group Design. The total population in this study is the entire class XI IPA SMA Negeri 1 Talang Ubi as many as 6 classes. Then the samples used in this study were two classes, namely class XI IPA 1 and XI IPA 2 as many as 62 students and the sampling technique used probably sampling with simple random sampling where the sample was chosen randomly. Based on the results of the independent samples t-test test output, a significance value of 0.000 <0.05 was obtained, which means that there were differences in the students' science process skills between the control and experimental classes. where Ha is accepted it means Ho is rejected. Therefore, it shows that there is an influence of the collaborative creativity learning model using PhET simulation on the students' science process skills.

Keywords: Collaborative Creativity Learning, PhET, KPS.

**PENGARUH MODEL COLLABORATIVE CREATIVITY LEARNING
MENGGUNAKAN SIMULASI PHET TERHADAP KETERAMPILAN PROSES
SAINS SISWA PADA MATERI RANGKAIAN LISTRIK SEDERHANA.**

Wanti¹, Dr.Fitri Oviyanti, M.Ag², Faizatul Mabruroh, M.Pd³.

¹²³Pendidikan Fisika, Fakultas Ilmu Tarbiyah dan Keguruan Universitas Islam Negeri Raden Fatah Palembang

¹Email : Wanti097@gmail.com

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh model *collaborative creativity learning* berbantuan simulasi *PhET* pada materi rangkaian listrik sederhana di SMA Negeri 1 Talang Ubi dan mengetahui apakah ada pengaruh penggunaan model *collaborative creativity learning* terhadap peningkatan keterampilan proses sains siswa. Penelitian ini menggunakan jenis penelitian *quasi experimental* dengan desain *Nonequivalent Control Group Design*. Jumlah seluruh populasi dalam penelitian ini yaitu seluruh kelas XI IPA SMA Negeri 1 Talang Ubi sebanyak 6 kelas. Lalu sampel yang dipakai pada penelitian ini yaitu dua kelas yaitu kelas XI IPA 1 dan XI IPA 2 sebanyak 62 siswa dan teknik pengambilan sampel menggunakan *probably sampling* dengan *simple random sampling* dimana sampel dipilih secara acak. Berdasarkan hasil output uji *independent samples t-test* didapatkan nilai signifikansi $0,000 < 0,05$ yang artinya terdapat perbedaan keterampilan proses sains peserta didik antara kelas kontrol dan eksperimen. yang dimana Ha diterima itu berarti Ho ditolak. Maka dari itu menunjukan bahwa terdapat pengaruh model pembelajaran *collaborative creativity learning* menggunakan simulasi *PhET* terhadap keterampilan proses sains peserta didik.

Kata Kunci : *Collaborative Creativity Learning, PhET, KPS*