

**PENGARUH MODEL *PROJECT BASED E-LEARNING* TERHADAP
KEMAMPUAN BERPIKIR KREATIF SISWA KELAS X MIPA SMA
NEGERI 1 PUPUAN**

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ABSTRAK

Penelitian ini bertujuan untuk mendeskripsikan perbedaan kemampuan berpikir kreatif siswa kelas X MIPA di SMA Negeri 1 Pupuan antara siswa yang belajar dengan model *project based e-learning* dan siswa yang belajar dengan model *direct e-learning*. Jenis penelitian ini adalah eksperimen semu (*quasi-experiment*) dengan desain *one way pretest-posttest non-equivalent control group design*. Populasi dalam penelitian ini adalah seluruh siswa kelas X MIPA di SMA Negeri 1 Pupuan yang terdiri dari 118 siswa yang telah terdistribusi ke dalam empat kelas. Teknik pengambilan sampel dalam penelitian ini, yaitu *random assignment*. Sampel terdiri atas dua kelas, yaitu: X MIPA 3 sebagai kelas kontrol dengan jumlah siswa 27 orang dan X MIPA 4 sebagai kelas eksperimen dengan jumlah siswa 29 orang. Data kemampuan berpikir kreatif siswa diperoleh dengan tes kemampuan berpikir kreatif yang berjumlah 12 butir soal uraian, dengan konsistensi internal butir tes dari 0,323 s/d 0,599 dan reliabilitas tes sebesar 0,677. Data yang terkumpul dianalisis berdasarkan analisis deskriptif dan analisis kovarian satu jalur. Tindak lanjut dari analisis kovarian satu jalur adalah analisis signifikansi perbedaan nilai rata-rata kemampuan berpikir kreatif siswa melalui *Least Significant Difference* (LSD). Semua pengujian hipotesis menggunakan taraf signifikan 5%. Pengujian hipotesis diawali dengan uji normalitas, uji homogenitas, dan uji linearitas. Hasil penelitian ini menunjukkan bahwa terdapat perbedaan kemampuan berpikir kreatif siswa antara siswa yang belajar dengan model *project based e-learning* dan siswa yang belajar dengan model *direct e-learning* ($F^* = 168,154$; $p = 0,001$). Hasil uji LSD = 17,937*; $p = 0,001$ yang menunjukkan bahwa kemampuan berpikir kreatif siswa yang belajar dengan model *project based e-learning* secara signifikan lebih tinggi dibandingkan dengan model *direct e-learning*.

Kata kunci: model *project based e-learning*, model *direct e-learning*, kemampuan berpikir kreatif siswa.

**THE EFFECT OF PROJECT BASED E-LEARNING MODEL TOWARD
STUDENT'S CREATIVE THINKING ABILITY OF X MIPA SMA
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ABSTRACT

This study aims to describe the differences in the creative thinking abilities of students of Class X MIPA in SMA Negeri 1 Pupuan between students who learn by project-based e-learning models and students who learn by direct e-learning models. This type of research is a quasi-experimental with a one-way pretest-posttest non-equivalent control group design. The population in this study were all students of class X MIPA in SMA Negeri 1 Pupuan which consisted of 118 students who had been distributed into four classes. The sampling technique in this study, namely random assignment. The sample consisted of two classes, namely: X MIPA 3 as a control class with 27 students and X MIPA 4 as an experimental class with 29 students. Data on students' creative thinking skills were obtained with a test of creative thinking skills, amounting to 12 item description items, with internal consistency of test items from 0.323 to 0.599 and test reliability of 0.677. The collected data were analyzed based on descriptive analysis and one-way covariance analysis. The follow up of the one-way covariance analysis is the analysis of the significance of the difference in the average value of students' creative thinking abilities through the Least Significant Difference (LSD). All hypothesis testing uses a 5% significance level. Hypothesis testing begins with the normality test, homogeneity test, and linearity test. The results of this study indicate that there are differences in students' creative thinking abilities between students learning with the project-based e-learning model and students learning with the direct e-learning model ($F^ = 168.154$; $p = 0.001$). LSD test results = 17.937*; $p = 0.001$ which shows that the creative thinking ability of students who learn with a project-based e-learning model is significantly higher than that of the direct e-learning model.*

Keywords: *project-based e-learning model, direct e-learning model, students' creative thinking abilities.*