

## ABSTRAK

**Aktafianto, Robert Anton.** 2022. Pengaruh *Project Based E-Learning* Terhadap Keterampilan Berpikir Kritis dan Prestasi Belajar IPAS Peserta Didik Kelas X SMK Negeri 1 Tembuku. *Tesis*. Singaraja: Program Pascasarjana, Universitas Pendidikan Ganesha.

Tesis ini sudah disetujui dan diperiksa oleh: Prof. Dr. I Made Yudana, M.Pd dan Prof. Dr. I Putu Wisna Ariawan, M.Si.

Kata kunci: model pembelajaran *Project Based E-Learning*, keterampilan berpikir kritis, dan prestasi belajar IPAS.

Tujuan penelitian ini adalah untuk mengetahui pengaruh model pembelajaran *Project Based E-Learning* terhadap keterampilan berpikir kritis, dan prestasi belajar IPAS. Penelitian ini merupakan penelitian eksperimen semu dengan rancangan *pre-test post test non ekuivalen control group design*. Populasi penelitian ini adalah kelas X SMK Negeri 1 Tembuku Tahun Pelajaran 2022/2023 sebanyak 10 kelas (259 siswa). Sampel penelitian ini diambil menggunakan teknik *group random sampling*, 2 kelas ditentukan sebagai sampel dan dibagi menjadi dua kelompok, yaitu kelompok eksperimen dan kelompok kontrol. Data keterampilan berpikir kritis dikumpulkan dengan tes uraian dan data prestasi belajar IPAS dikumpulkan dengan tes pilihan ganda diperluas. Analisis data menggunakan uji statistik *Multivariate Analysis of Covarian* (MANCOVA) satu jalur dan dilanjutkan dengan uji *LSD*. Pengujian hipotesis menggunakan taraf signifikan 5%. Hasil penelitian menunjukkan bahwa, (1) terdapat perbedaan keterampilan berpikir kritis dan prestasi belajar IPAS antara siswa yang belajar dengan model pembelajaran *Project Based e-Learning* dan siswa yang belajar dengan model pembelajaran *Direct e-Learning* (2) terdapat perbedaan keterampilan berpikir kritis antara siswa yang belajar dengan model pembelajaran *Project Based e-Learning* dan siswa yang belajar dengan model pembelajaran *Direct e-Learning* (3) terdapat perbedaan prestasi belajar IPAS antara siswa yang belajar dengan model pembelajaran *Project Based e-Learning* dan siswa yang belajar dengan model pembelajaran *Direct e-Learning*. Model *Project Based e-Learning* berpengaruh lebih besar dibandingkan dengan *Direct e-Learning* terhadap keterampilan berpikir kritis dan prestasi belajar IPAS siswa kelas X SMKN 1 Tembuku.

## ABSTRACT

Aktafianto, Robert Anton. 2022. The Effect of Project Based E-Learning on Students Critical Thinking Skills and Science Learning Achievement in Class X of SMK Negeri 1 Tembuku. Thesis. Singaraja: Post-graduate Program, Ganesha University of Education.

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Keywords: Project Based E-Learning learning model, critical thinking skills, learning achievement and Science Learning

The purpose of this study was to determine the effect of the Project Based E-Learning learning model on critical thinking skills, and science achievement. This research is a quasi-experimental research design. The population of this study was class X SMK Negeri 1 Tembuku for the 2022/2023 academic year, consisting of 10 classes (259 students). The research sample was taken using random sampling technique, 2 classes were determined as samples and divided into two groups, namely the experimental group and the control group. Critical thinking skills data was collected with an essay test and in science learning achievement data was collected with an expanded multiple choice test. Data analysis used the one way MANCOVA statistical test with a significance level of 5% and continued with the LSD test. The results showed that, (1) There are differences in critical thinking skills and learning achievement of science between students who learned with the PjBeL model and students who learned with the DeL model (2) There are differences in critical thinking skills between students who learned with the PjBeL model and students learning with the DeL model, (3) There are differences in science learning achievement between students who learned with the PjBeL model and students learning with the DeL model. Based on the results of the study it can be concluded that the PjBeL model influences students' critical thinking skills and learning achievement of science in Class X SMKN 1 Tembuku