

M. Fakhruddin Aldiansyah. 2022. *Pengaruh Model Project Based Learning Berbantu Aplikasi Proteus Dipadu Dengan Model Pembelajaran TAI (Team Assisted Individualization) Terhadap Hasil Belajar Siswa Pada Materi Gerbang Logika Kelas X SMKN 4 Bojonegoro*. Skripsi Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing 1: Etistika Yuni Wijaya, S.Pd., M.Pd.

ABSTRAK

Keberhasilan dalam proses belajar dapat dilihat dari hasil belajar yang dicapai siswa. Ada beberapa faktor yang mempengaruhi tidak meratanya tingkat pemahaman siswa sehingga terjadi ketimpangan nilai hasil belajar pada materi gerbang logika kelas X SMKN 4 Bojonegoro yaitu model pembelajaran yang digunakan oleh guru tidak bervariasi sehingga siswa kurang tertarik untuk belajar dan menyebabkan rendahnya tingkat keaktifan siswa. Penelitian ini bertujuan untuk mengetahui bagaimana pengaruh model *project based learning* berbantu aplikasi proteus dipadu dengan model pembelajaran TAI (*Team Assisted Individualization*) terhadap hasil belajar siswa pada materi gerbang logika kelas X SMKN 4 Bojonegoro. Penelitian ini termasuk penelitian kuantitatif, populasi dalam penelitian ini adalah kelas X RPL, pengambilan sampel menggunakan teknik *nonprobability sampling* dengan jenis *sampling* purposive. Sampel pada penelitian ini adalah kelas X RPL 1 sebagai kelas eksperimen dan kelas X RPL 3 sebagai kelas kontrol karena pada kedua kelas tersebut terjadi ketimpangan nilai yang signifikan. Data diperoleh dengan cara memberikan *pretest* dan *posttest* kepada masing-masing kelas. Dari hasil perhitungan diperoleh $t_{hitung} = 3,52 > t_{tabel} = 2,043$ sehingga model *project based learning* berbantu aplikasi proteus dipadu model kooperatif tipe TAI berpengaruh secara signifikan terhadap hasil belajar siswa pada materi gerbang logika kelas X RPL SMKN 4 Bojonegoro.

Kata kunci : *Project based learning*, proteus, pembelajaran kooperatif, *Team Assisted Individualization*, hasil belajar.

M. Fakhruddin Aldiansyah. 2022. Effect of Project Based Learning Model Assisted by Proteus Applications Combined with TAI (Team Assisted Individualization) Learning Model on Student Learning Outcomes in Class X Logic Gate Materials at SMKN 4 Bojonegoro. Thesis of Informatics Education Study Program, Faculty of Education, Trunojoyo University, Madura. Supervisor 1: Etistika Yuni Wijaya, S.Pd., M.Pd

ABSTRACT

Success in the learning process can be seen from the learning outcomes achieved by students. There are several factors that affect the uneven level of student understanding so that there is an imbalance in the value of learning outcomes in class X logic gate material at SMKN 4 Bojonegoro, namely the learning model used by the teacher does not vary so that students are less interested in learning and cause low levels of student activity. This study aims to determine how the effect of the project based learning model assisted by the Proteus application combined with the TAI (Team Assisted Individualization) learning model on student learning outcomes in class X logic gate material at SMKN 4 Bojonegoro. This research is a quantitative research. The population in this study is class X RPL. The sample is taken using a non-probability sampling technique with purposive sampling type. The sample in this study was class X RPL 1 as the experimental class and class X RPL 3 as the control class because in both classes there was a significant discrepancy in values. Data was obtained by giving pretest and posttest to each class. From the calculation results, it is obtained that $t_{count} = 3.52 > t_{table} = 2.043$ so that the project based learning model assisted by the Proteus application combined with the TAI type cooperative model has a significant effect on student learning outcomes in class X RPL logic gate material at SMKN 4 Bojonegoro.

Keywords: *Project based learning, Proteus, cooperative learning, Team Assisted Individualization, learning outcomes.*