

Ketidaktepatan guru dalam memilih model pembelajaran dapat menyebabkan siswa kesulitan dalam memahami mata pelajaran. Berdasarkan hasil wawancara dengan guru produktif di SMKN 2 Bangkalan, hasil belajar siswa kelas XI TJKT masih banyak yang dibawah KKM. Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran Project Based Learning berbantuan tutorial W3schools terhadap hasil belajar siswa pada materi pemrograman web kelas XI TJKT SMKN 2 Bangkalan, beserta aktivitas pelaksanaan dan respon siswanya. Penelitian ini berjenis kuantitatif dengan Nonequivalent Control Group Design dengan populasi 60 siswa, dimana kelas XI TJKT 1 sebagai kelas kontrol dan kelas XI TJKT 2 sebagai kelas eksperimen. Pengumpulan data berupa instrumen tes, observasi, dan angket. Berdasarkan hasil penelitian diperoleh, (1) Hasil uji signifikan menyatakan terdapat pengaruh signifikan antara model pembelajaran Project Based Learning dengan hasil belajar siswa (ranah kognitif) dengan hasil thitung > ttabel atau 5,208 > 2,048, maka HO ditolak. (2) Aktifitas guru memperoleh presentase 85,72% berkategori "Sangat Baik" dan aktifitas siswa memperoleh presentase 87%, berkategori "Sangat Baik". (3) Tanggapan siswa untuk pembelajaran dengan model Project Based Learning mendapat presentase 90,73%, berkategori "Sangat Baik". Jadi, dapat disimpulkan bahwa terdapat pengaruh model pembelajaran Project Based Learning terhadap hasil belajar siswa pada materi pemrograman web XI TJKT SMKN 2 Bangkalan.

The inaccuracy of educators in choosing learning models can cause students to have difficulty understanding subjects. Based on the results of interviews with productive teachers at SMKN 2 Bangkalan, many of the learning outcomes of class XI TJKT students are still below the KKM. This study aims to determine the effect of the Project Based Learning model assisted by the W3schools tutorial on student learning outcomes in web programming material for class XI TJKT SMKN 2 Bangkalan, along with the implementation activities and student responses. This research is a quantitative type with Nonequivalent Control Group Design with a population of 60 students, where class XI TJKT 1 is the control class and class XI TJKT 2 is the experimental class. Data collection is in the form of test instruments, observations, and questionnaires. Based on the research results obtained, (1) Significant test results stated that there was a significant influence between the Project Based Learning learning model and student learning outcomes (cognitive domain) with the results of $t_{count} > t_{table}$ 5.208 > 2.048, then H_0 was rejected. (2) Educator activities get a percentage of 85.72% in the "Very Good" category and student activities get a percentage of 87%, in the "Very Good" category. (3) Student responses to learning with the Project Based Learning model get a percentage of 90.73%, in the "Very Good" category. So, it can be concluded that there is an influence of the Project Based Learning learning model on student learning outcomes in web programming material XI TJKT SMKN 2 Bangkalan.