

## ABSTRAK

**Feronica Felentina, NIM 4181131026 (2018). Penerapan Model *Problem Based Learning* (PBL) Berbantuan Media *iSpring* pada Materi Larutan Elektrolit dan Non Elektrolit.**

Penelitian ini bertujuan untuk mengetahui rata-rata hasil belajar dan motivasi belajar dengan model pembelajaran *Problem Based Learning* (PBL) Berbantuan Media *iSpring* dibanding model pembelajaran konvensional. Penelitian ini dilakukan di SMA Negeri 1 Sunggal dengan sampel dalam penelitian ini adalah 2 kelas yaitu kelas eksperimen di kelas X IPA 2 dan kelas kontrol di kelas X IPA 3 yang diperoleh menggunakan teknik *purposive sampling*. Instrumen penelitian terdiri dari instrumen test berupa soal yang telah di validasi dan instrumen non test berupa lembar angket motivasi belajar.

Hasil penelitian untuk motivasi belajar dengan menggunakan uji *independent sample t-test* pada  $\alpha = 0,05$  diperoleh nilai  $t_{hitung}$  adalah 1,81. Untuk hasil belajar menunjukkan bahwa rata-rata nilai dengan model pembelajaran *Problem Based Learning* (PBL) berbantuan media *Ispring* yaitu 84,58 sedangkan rata-rata pada model pembelajaran konvensional yaitu 77,50. Perhitungan gain menunjukkan bahwa peningkatan hasil belajar pada kelas eksperimen sebesar 72% dengan kriteria tinggi sedangkan kelas kontrol 68% dengan kriteria sedang dan diperoleh nilai  $t_{hitung}$  adalah 4,94 sehingga  $H_a$  diterima yaitu hasil belajar siswa yang diajarkan dengan model pembelajaran *Problem Based Learning* berbantuan media *Ispring* lebih tinggi daripada hasil belajar siswa yang diajarkan dengan model pembelajaran konvensional pada materi larutan elektrolit dan non elektrolit.

Sedangkan hasil penelitian untuk uji korelasi diperoleh nilai  $r_{hitung}$  adalah 0,333. Dengan demikian, terdapat korelasi yang signifikan antara motivasi belajar terhadap peningkatan hasil belajar siswa pada kelas eksperimen sebesar 11% . Hal ini menunjukkan bahwa semakin tinggi motivasi belajar maka hasil belajar semakin tinggi, begitu juga sebaliknya

**Kata kunci:** *Problem Based Learning*, Hasil Belajar, Motivasi Belajar, *Ispring*



## ABSTRACT

**Feronica Felentina, NIM 4181131026 (2018). Application of Problem Based Learning (PBL) Model Assisted by iSpring Media on Electrolyte and Non-Electrolyte Solution Materials.**

This study aims to determine the average learning outcomes and learning motivation with the iSpring Media Assisted Problem Based Learning (PBL) learning model compared to conventional learning models. This research was conducted at SMA Negeri 1 Sunggal with the samples in this study were 2 classes, namely the experiment class in class X IPA 2 and the control class in class X IPA 3 which were obtained using purposive sampling technique. The research instrument consisted of a test instrument in the form of validated questions and a non-test instrument in the form of a learning motivation questionnaire.

The results of the study for learning motivation by using the independent sample t-test at  $\alpha = 0.05$ , the  $t_{count}$  value was 1.81. For learning outcomes, it shows that the average value with the Problem Based Learning (PBL) learning model assisted by the Ispring media is 84.58 while the average value in the conventional learning model is 77.50. The gain calculation shows that the increase in learning outcomes in the experimental class is 72% with high criteria while the control class is 68% with moderate criteria and the  $t_{count}$  is 4.94 so that  $H_a$  is accepted, namely the learning outcomes of students who are taught with the Problem Based Learning learning model assisted by the Ispring media. higher than student learning outcomes taught by conventional learning models on electrolyte and non-electrolyte solutions.

While the results of the research for the correlation test, the value of  $r_{count}$  is 0,333. Thus, there is a significant correlation between learning motivation to increase student learning outcomes in the experiment class by 11%. This shows that the higher the motivation, the higher the learning outcomes.

**Keywords:** Problem Based Learning, Learning Outcomes, Motivation, Ispring

