

## ABSTRAK

**Nur Malia Wahidah:** Penerapan Model *Problem Based Learning* Berbantuan Moodle untuk Meningkatkan Keterampilan Pemecahan Masalah Peserta Didik Kelas XI pada Materi GLB dan GLBB

Penelitian ini bertujuan untuk mengetahui (1) Keterlaksanaan proses pembelajaran menggunakan model *Problem Based Learning* berbantuan Moodle terhadap keterampilan pemecahan masalah peserta didik pada materi GLB dan GLBB; (2) Peningkatan keterampilan pemecahan masalah peserta didik menggunakan model *Problem Based Learning* berbantuan Moodle pada materi GLB dan GLBB. Metode penelitian yang digunakan adalah metode *quasi experiment* (percobaan semu) dengan jumlah sampel 33 orang untuk kelas eksperimen dan 33 orang untuk kelas kontrol dengan menggunakan desain penelitian *Pre-test Post-test Only Control Group Design*. Populasi dalam penelitian ini adalah seluruh peserta didik kelas XI SMAN 5 Cilegon. Pengambilan sampel penelitian menggunakan teknik *purposive* yaitu sampel diambil berdasarkan kriteria peserta didik yang belum menerima materi GLB dan GLBB serta peserta didik yang belum melaksanakan praktikum GLB dan GLBB. Hasil penelitian menunjukkan bahwa keterlaksanaan pembelajaran menggunakan model *Problem Based Learning* berbantuan Moodle memperoleh persentase rata-rata sebesar 87% dan keterlaksanaan pembelajaran menggunakan model *Discovery Learning* memperoleh persentase rata-rata sebesar 84%. Berdasarkan hasil uji hipotesis menggunakan uji *Independent Sample T-Test* melalui *software* SPSS 24 menunjukkan nilai sig (2-tailed) sebesar  $0,000 < sig (0,05)$  dapat dikatakan terdapat perbedaan peningkatan keterampilan pemecahan masalah peserta didik secara signifikan yang menerapkan model *Problem Based Learning* berbantuan Moodle sebagai kelas eksperimen dan model *Discovery Learning* sebagai kelas kontrol pada materi GLB dan GLBB.

**Kata Kunci:** *Discovery Learning*, Keterampilan Pemecahan Masalah, Moodle, *Problem Based Learning*

## ABSTRACT

**Nur Malia Wahidah:** Application of the Problem Based Learning Model Assisted by Moodle to Improve Class XI Students Problem Solving Skills on GLB and GLBB Material

This research aims to determine (1) the implementation of the learning process using the Problem Based Learning model assisted by Moodle on students' problem solving skills on GLB and GLBB material; (2) Improving students' problem solving skills using the Problem Based Learning model assisted by Moodle on GLB and GLBB material. The research method used was a quasi-experimental method with a sample size of 33 people for the experimental class and 33 people for the control class using a Pre-test Post-test Only Control Group Design research design. The population in this study were all students in class XI of SMAN 5 Cilegon. Research sampling used a purposive technique, namely samples were taken based on the criteria of students who had not received GLB and GLBB material as well as students who had not carried out GLB and GLBB practicum. The results of the research show that the implementation of learning using the Problem Based Learning model assisted by Moodle obtained an average percentage of 87% and the implementation of learning using the Discovery Learning model obtained an average percentage of 84%. Based on the results of hypothesis testing using the Independent Sample T-Test via SPSS 24 software, it shows a sig (2-tailed) value of  $0.000 < sig (0.05)$ , it can be said that there is a significant difference in increasing the problem solving skills of students who apply the Problem Based Learning model. assisted by Moodle as an experimental class and the Discovery Learning model as a control class on GLB and GLBB material.

**Keywords:** Discovery Learning, Problem Solving Skills, Moodle, Problem Based Learning