

**IMPLEMENTASI MODEL *PROBLEM BASED LEARNING* UNTUK
MENINGKATKAN KEMAMPUAN PEMECAHAN MASALAH FISIKA
SISWA KELAS XI MIPA 3 DI SMAN 2 SINGARAJA**

Oleh

I Putu Indra Putra Pratama, NIM 1513021081

Program Studi Pendidikan Fisika

Jurusan Fisika dan Pengajaran IPA

ABSTRAK

Penelitian ini bertujuan untuk: (1) meningkatkan kemampuan pemecahan masalah, dan (2) mendeskripsikan tanggapan siswa terhadap model PBL dalam pembelajaran fisika. Jenis penelitian ini adalah penelitian tindakan kelas (*classroom action research*). Penelitian ini dirancang dalam dua siklus pembelajaran. Setiap siklus terdiri dari empat tahap, yaitu perencanaan tindakan, pelaksanaan tindakan, observasi/evaluasi, dan refleksi. Subjek penelitian ini adalah siswa kelas XI MIPA 3 SMAN 2 Singaraja tahun pelajaran 2019/2020 yang berjumlah 34 orang. Objek penelitian ini adalah kemampuan pemecahan masalah dan tanggapan siswa terhadap model PBL. Data kemampuan pemecahan masalah siswa dikumpulkan dengan tes *essay* yang berjumlah 5 butir soal tiap siklusnya. Data tanggapan siswa terhadap penerapan model PBL dikumpulkan melalui angket yang berjumlah 20 pernyataan dengan 5 alternatif pilihan jawaban. Data dianalisis menggunakan analisis statistik deskriptif. Hasil analisis data menunjukkan 1) terdapat peningkatan nilai rata-rata kemampuan pemecahan siklus I ($\bar{X}=81,91$) ke siklus II ($\bar{X}= 84,71$) dengan kategori sangat baik, dan 2) tanggapan siswa terhadap penerapan model PBL menunjukkan kategori sangat positif. Berdasarkan hasil tersebut, maka dapat disimpulkan implementasi model PBL dapat meningkatkan pemecahan masalah fisika siswa kelas XI MIPA 3 SMAN 2 Singaraja Tahun Pelajaran 2019/2020.

Kata kunci: Model *Problem Based Learning*, Kemampuan pemecahan masalah

**IMPLEMENTATION OF PROBLEM BASED LEARNING MODEL TO
INCREASE OF PROBLEM SOLVING PHYSICS IN THE CLASS XI MIPA 3
STUDENTS IN SMAN 2 SINGARAJA**

By

I Putu Indra Putra Pratama, NIM 1513021081

Physics Education Program

Physics and Science Teaching Department



ABSTRACT

This study aimed to: (1) improve problem-solving abilities, and (2) describe student responses to PBL models in physics learning. This type of research is classroom action research. This research was designed in two learning cycles. Each cycle consists of empathic, i.e. action planning, action implementation, observation / evaluation, and reflection. The subjects of this study were students of class XI MIPA 3 of SMAN 2 Singaraja in the 2019/2020 school year, which caught 34 people. The object of this research is problem solving and student responses to the PBL model. Data on students' problem-solving skills were collected with essay tests that challenged 5 items each cycle. Data on student responses to the application of the PBL model were collected through a questionnaire given 20 responses with 5 alternative answer choices. Data were analyzed using descriptive statistical analysis. The results of data analysis show that 1) There is an increase in the average value of the ability to solve the cycle I ($\bar{X} = 81.91$) to cycle II ($\bar{X} = 84.71$) with a very good category, and 2) student prizes for the application of the PBL model show a very positive. Based on these results, it can be concluded that the implementation of the PBL model can improve the physics problem solving of the XI MIPA 3 class of SMAN 2 Singaraja 2019/2020 Academic Year.

Keywords: Problem Based Learning Model, Problem solving ability