

PENGARUH MODEL PEMBELAJARAN *PROBLEM BASED LEARNING* BERBANTUAN *ARTIFICIAL INTELLIGENCE* DALAM MENINGKATKAN HASIL BELAJAR PESERTA DIDIK

(Studi Eksperimen pada Mata Pelajaran Ekonommi Kelas X SMAN 1 Margahayu
Tahun Ajaran 2025/2026)

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ABSTRAK

Penelitian ini dilatarbelakangi oleh proses pembelajaran yang masih berpusat pada guru sehingga keterlibatan aktif peserta didik kurang optimal. Pembelajaran abad 21 dipusatkan pada peserta didik yang dikenal dengan *Student Center Learning* (SCL) dan saat ini sedang marak penggunaan *Artificial Intelligence* dalam pembelajaran. Sehingga penelitian ini bertujuan untuk melihat pengaruh penerapan model *Problem Based Learning* berbantuan *Artificial Intelligence* terhadap peningkatan hasil belajar peserta didik. Penelitian menggunakan pendekatan kuantitatif dengan metode eksperimen dan desain penelitian *The Pretest-Post-Test Two Treatment Design* yang menjadikan kelas X sebagai subjek penelitian. Untuk mengukur hasil belajar digunakan tes esai dengan pola *pretest* dan *posttest*. Model pembelajaran *Problem Based Learning* berbantuan *Artificial Intelligence* memberikan pengaruh terhadap peningkatan hasil belajar peserta didik pada mata pelajaran ekonomi di SMA Negeri 1 Margahayu. Pengaruh tersebut dapat dilihat dari model *Problem Based Learning* yang mendorong peserta didik dalam mengkonstruksi pengetahuan secara aktif melalui pemecahan masalah dengan bantuan Gemini AI dengan memberikan umpan balik secara *real-time*, sehingga hasil peserta didik pada penelitian ini mengalami peningkatan.

Kata Kunci: *Problem Based Learning, Artificial Intelligence, Hasil Belajar*

***THE EFFECT OF PROBLEM BASED LEARNING MODEL
ASSISTED BY ARTIFICIAL INTELLIGENCE IN IMPROVING
STUDENTS LEARNING OUTCOMES***

(Experimental Study on Economics Subject for Grade X Students of SMAN 1

Margahayu Academic Year 2025/2026)

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ABSTRACT

This study is motivated by the learning process that remains teacher-centered, resulting in suboptimal active participation of students. Twenty-first century learning emphasizes a student-centered approach known as Student Centered Learning (SCL), and the use of Artificial Intelligence in education is currently gaining widespread momentum. Therefore, this study aims to examine the effect of implementing the Problem Based Learning model assisted by Artificial Intelligence on the improvement of students' learning outcomes. The study employs a quantitative approach with an experimental method and a The Pretest-Post-Test Two Treatment Design, with Grade X students as the research subjects. Essay tests with a pretest and posttest pattern were used to measure learning outcomes. The Problem Based Learning model assisted by Artificial Intelligence was found to have a significant effect on the improvement of students' learning outcomes in the Economics subject at SMA Negeri 1 Margahayu. This effect can be attributed to the Problem Based Learning model that encourages students to actively construct knowledge through problem-solving, supported by Gemini AI which provides real-time feedback, resulting in a notable improvement in students' learning outcomes throughout this study.

Keywords: *Problem Based Learning, Artificial Intelligence, Learning Outcomes*

**PANGARUH MODEL PANGAJARAN PROBLEM BASED
LEARNING DIBANTUAN ARTIFICIAL INTELLIGENCE DINA
NINGKATKEUN HASIL DIAJAR PESERTA DIDIK**

*(Studi Eksperimen dina Mata Pelajaran Ekonomi Kelas X SMAN 1 Margahayu
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RINGKESAN

Panalungtikan ieu dilatar belakangi ku proses pengajaran anu masih keneh terpusat kana guru, sahingga keterlibatan aktif peserta didik kurang optimal. Pangajaran abad ka-21 dipusatkeun kana peserta didik anu katelah Student Centered Learning (SCL), sareng ayeuna keur ngaronjat pisan panggunaan Artificial Intelligence dina pangajaran. Ku kituna, panalungtikan ieu boga tujuan pikeun ningali pangaruh penerapan model Problem Based Learning dibantuan Artificial Intelligence kana peningkatan hasil diajar peserta didik. Panalungtikan ngagunakeun pendekatan kuantitatif kalawan métode ékspérimén sareng desain panalungtikan The Pretest-Post-Test Two Treatment Design anu ngajadikeun kelas X salaku subjek panalungtikan. Pikeun ngukur hasil diajar digunakeun tést éséy kalawan pola pretest sareng posttest. Model pangajaran Problem Based Learning dibantuan Artificial Intelligence méré pangaruh kana peningkatan hasil diajar peserta didik dina mata pelajaran ékonomi di SMA Negeri 1 Margahayu. Pangaruh éta tiasa ditingali tina model Problem Based Learning anu ngadorong peserta didik dina ngawangun pangaweruh sacara aktif ngaliwatan pamecahan masalah kalawan bantuan Gemini AI anu méré umpan balik sacara real-time, sahingga hasil peserta didik dina panalungtikan ieu ngalaman peningkatan.

Kecap Konci: *Problem Based Learning, Artificial Intelligence, Hasil Diajar*