

ABSTRAK

Inda, Primandasari Hada. 2026. “Penerapan Problem Based Learning Dengan Pendekatan Deep Learning Untuk Meningkatkan Pemahaman Siswa Pada Materi Statistika Di Smp Negeri 25 Malang” Program Studi Pendidikan Matematika, Program Sarjana Universitas Tribhuwana Tunggaladewi. Pembimbing: (I) Nila Kartika Sari, S.Pd., M.Pd, Pembimbing : (II) Rio Febrianto Arifendi, S.Pd., M.Pd

Kata Kunci : *Problem Based Learning, Deep Learning, pemahaman siswa, statistika.*

Penelitian ini dilatarbelakangi oleh rendahnya pemahaman siswa pada materi statistika di kelas VIII SMP Negeri 25 Malang. Pembelajaran yang masih berpusat pada guru menyebabkan siswa kurang aktif dan mengalami kesulitan dalam memahami konsep statistika. Oleh karena itu, diterapkan model *Problem Based Learning* (PBL) dengan pendekatan *Deep Learning* untuk meningkatkan pemahaman siswa. Penelitian ini bertujuan untuk mendeskripsikan penerapan *Problem Based Learning* dengan pendekatan *Deep Learning* dalam meningkatkan pemahaman siswa pada materi statistika. Penelitian ini menggunakan jenis Penelitian Tindakan Kelas (PTK) model Kemmis dan McTaggart yang terdiri atas tahap perencanaan, pelaksanaan tindakan, observasi, dan refleksi. Penelitian dilaksanakan dalam dua siklus dengan subjek 30 siswa kelas VIII-A SMP Negeri 25 Malang. Teknik pengumpulan data dilakukan melalui tes, observasi, wawancara, dan dokumentasi. Hasil penelitian menunjukkan bahwa penerapan *Problem Based Learning* dengan pendekatan *Deep Learning* dapat meningkatkan pemahaman siswa pada materi statistika. Nilai rata-rata siswa meningkat dari 51,83 pada pra-siklus menjadi 67,66 pada Siklus I dan 81,53 pada Siklus II. Persentase ketuntasan belajar juga meningkat dari 36,7% pada Siklus I menjadi 86,67% pada Siklus II. Selain itu, siswa menjadi lebih aktif, mampu bekerja sama, dan lebih memahami konsep statistika. Dengan demikian, penerapan *Problem Based Learning* berbasis *Deep Learning* terbukti dapat meningkatkan pemahaman siswa pada materi statistika di SMP Negeri 25 Malang.

ABSTRACT

Inda, Primandasari Hada. 2026. *“Implementation of Problem Based Learning Based on Deep Learning to Improve Students’ Understanding of Statistics Material at SMP Negeri 25 Malang”* Undergraduate Program of Mathematics Education, Tribhuwana Tungadewi University. Advisors: (I) Nila Kartika Sari, S.Pd., M.Pd., (II) Rio Febrianto Arifendi, S.Pd., M.Pd.

Keywords: Problem Based Learning, Deep Learning, students’ understanding, statistics.

This research was motivated by the low students’ understanding of statistics material in class VIII at SMP Negeri 25 Malang. Teacher-centered learning caused students to be less active and have difficulties in understanding statistical concepts. Therefore, the Problem Based Learning (PBL) model based on Deep Learning was applied to improve students’ understanding. This study aimed to describe the implementation of Problem Based Learning based on Deep Learning in improving students’ understanding of statistics material. This research used Classroom Action Research (CAR) with the Kemmis and McTaggart model consisting of planning, action, observation, and reflection stages. The study was conducted in two cycles involving 30 students of class VIII-A at SMP Negeri 25 Malang. Data were collected through tests, observations, interviews, and documentation. The results showed that the implementation of Problem Based Learning based on Deep Learning improved students’ understanding of statistics material. The average score increased from 51.83 in the pre-cycle to 67.66 in Cycle I and 81.53 in Cycle II. Learning completeness also increased from 36.7% in Cycle I to 86.67% in Cycle II. In addition, students became more active, collaborative, and better understood statistical concepts. Therefore, the implementation of Problem Based Learning based on Deep Learning was effective in improving students’ understanding of statistics material at SMP Negeri 25 Malang.