

ABSTRAK

Ester Lidya Monalisa Siahaan, NIM 4193141011 (2024). Implementasi Model Pembelajaran *Project Based Learning* (PjBL) Terhadap Hasil Belajar dan Kemampuan Daya Ingat Siswa Pada Materi Sistem Peredaran Darah di Kelas XI SMA Negeri 5 Medan T.P. 2023/2024.

Penelitian ini bertujuan untuk mengetahui hasil belajar dan kemampuan daya ingat siswa melalui implementasi model pembelajaran *Project Based Learning* (PjBL) pada materi sistem peredaran darah di kelas XI IPA 8 SMA Negeri 5 Medan Tahun Pelajaran 2023/2024. Jenis penelitian yang digunakan pada penelitian ini adalah *quasi eksperiment* dengan desain penelitian *one group pretest-posttest design* dan kelas sampel yaitu kelas XI IPA 8 yang berjumlah 36 siswa diperoleh dengan menggunakan teknik *purposive sampling*. Instrumen yang digunakan adalah soal tes pilihan berganda sebanyak 25 soal yang telah diuji validitas, reliabilitas, daya pembeda dan tingkat kesukarannya untuk kemudian digunakan dalam 4 kali tes yaitu pada *pretest*, *posttest*, *retest 1* dan *retest 2*. Setelah dilaksanakan penelitian dalam rentang waktu 2 minggu sebanyak 4 kali pertemuan didapatkan beberapa hasil yaitu berdasarkan hasil uji N-Gain ditemukan peningkatan hasil belajar secara kognitif sebesar 0,64 berkategori sedang, ditinjau dari ketuntasan hasil belajar sebanyak 88,89% atau 32 siswa memperoleh nilai tuntas dan secara klasikal kelas dinyatakan tuntas, ditinjau dari ketercapaian indikator pembelajaran diperoleh persentase rata-rata 82,86% hal ini menunjukkan bahwa tingkat ketercapaian indikator pembelajaran siswa pada materi sistem peredaran darah menggunakan model pembelajaran PjBL telah terpenuhi, selain itu ditemukan pula hasil yang baik pada persentase kemampuan daya ingat siswa yaitu didapatkan rata-rata sebesar 94,05 pada *retest 1* dan 90,93 pada *retest 2* dengan kategori tinggi. Berlandaskan hasil penelitian tersebut dapat disimpulkan bahwa model pembelajaran PjBL membantu siswa meningkatkan hasil belajar dan kemampuan daya ingatnya pada materi sistem peredaran darah di kelas XI IPA 8 SMA Negeri 5 Medan.

Kata Kunci: *Project Based Learning*, Hasil Belajar, Kemampuan Daya Ingat.

ABSTRACT

Ester Lidya Monalisa Siahaan. NIM 4193141011 (2024). Implementation of the Project Based Learning (PjBL) Learning Model on Students Learning Outcomes and Memory Abilities of Circulatory System Material in Class XI Senior High School State 5 for the 2023/2024 Academic Year.

This study aimed to determine the learning outcomes and memory abilities of students through the implementation of the Project Based Learning (PjBL) learning model on the circulatory system material in class XI Science 8 of Senior High School State 5 of Medan for the 2023/2024 academic year. The study employed a quasi-experimental design with a one-group pretest-posttest approach. Purposive sampling was used to select the sample class. The sample of this study is XI Science 8 totalling 36 students. The research instruments included a set of 25 multiple-choice questions that had been validated for their validity, reliability, discriminative power, and difficulty level. These questions were used in four tests: a pretest, a posttest, and two retests. The findings revealed that after two weeks and four sessions of implementing PjBL, there was a moderate improvement in students cognitive learning outcomes, with an N-Gain score of 0.64. The mastery completion rate was 88.89%, indicating that 32 students achieved satisfactory scores, and the class was considered to have achieved classical completeness. Additionally, the achievement of learning indicators reached an average percentage of 82.86%, demonstrating that the implementation of PjBL successfully met the learning objectives for the circulatory system material. Furthermore, the study found significant improvements in students memory abilities, with average scores of 94.05 in the first retest and 90.93 in the second retest, both categorized as high. Based on these results, it can be concluded that the PjBL learning model helps students improve their learning outcomes and memory abilities in circulatory system material in class XI Science 8 of Senior High School State 5 Medan.

Keywords: Project Based Learning, Learning Outcomes, Memory Abilities.