

ABSTRAK

Astikasari, Winda 2023. Pengaruh Model Pembelajaran Project Based Learning Terhadap Kemampuan Kognitif pada Materi Sistem Ekskresi Siswa Kelas VIII SMP IT Al – Madinah Tanjungpinang, Skripsi. Tanjungpinang: Program Studi Pendidikan Biologi, Fakultas Keguruan Dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Erda Muhartati, S.Si, M.Si. Pembimbing II: Assist. Prof. Nur Eka Kusuma Hindrasti, S.Pd., M.Pd.

Kata kunci : Kemampuan Kognitif, Project Based Learning, Sistem Ekskresi

Peneitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *project based learning* terhadap kemampuan kognitif pada siswa kelas VIII SMP IT Al –Madinah Tanjungpinang. Penelitian ini menggunakan jenis penelitian *quasi experiment* dengan menggunakan desain penelitian *post-test only control design*. Variabel terikat dalam penelitian ini adalah kemampuan kognitif dengan mengamati enam taksonomi bloom yaitu: pengetahuan, pemahaman, penerapan, analisis, sintesis dan evaluasi. Sampel penelitian yang digunakan dalam penelitian ini adalah siswa kelas VIII Shaffiyah di SMP IT Al – Madinah Tanjungpinang yang berjumlah 34 orang siswa. Kelas kontrol menggunakan model konvensional *Student Teams Achievement Divisions* dan kelas eksperimen menggunakan model *project based learning*. Materi yang diajarkan yaitu sistem ekskresi dengan melakukan praktikum secara berkelompok. Data penelitian didapatkan dari hasil *post-test*. Hasil penelitian menggunakan uji *t test* menunjukkan bahwa sig (2-tailed) $0,000 < 0,05$ yang berarti ada pengaruh positif dan signifikan pada hasil *post-test* kemampuan kognitif siswa setelah menggunakan model *project based learning* pada materi sistem ekskresi.

ABSTRACT

Astikasari, Winda 2023. The influence of Using the Project Based Learning Model to the Students' Cognitive Abilities in Excretion System Material on eight grade of SMP IT Al – Madinah Tanjungpinang. Thesis. Tanjungpinang: Biology Education, Faculty of Teacher Training and Education, Universitas Maritim Raja Ali Haji. Advisor : Assist. Prof. Erda Muhartati, S.Si, M.Si. Co-Advisor : Assist. Prof. Nur Eka Kusuma Hindrasti, S.Pd., M.Pd.

Kata kunci : Cognitive Abilities, *Project Based Learning*, Excretion System

This research aim to determined the influence of project based learning model to cognitive abilities of the eight grade student of SMP IT Al –Madinah Tanjungpinang. This research used the quasi experiment with post-test only control design as the research design. The dependent variable in this research was cognitive abilities with six bloom taxonomies namely: knowledge, understanding, application, analysis, synthesis and evaluation. The sample on this research was eight grade student of SMP IT Al - Madinah Tanjungpinang that consisted of 34 students. The control class used the conventional Student Teams Achievement Divisions model and the experimental class used the project based learning model. The material being taught was the excretory system did practicum in groups. The research data was obtained from the results of the post-test and observation sheets. The results of the study used the t test showed that sig (2-tailed) $0.000 < 0.05$, which means that there was a positive and significant effect on the post-test results of the students' cognitive abilities after used the project based learning model on the excretion system material.