

ABSTRAK

Siti Nurma Hasan Nia Siregar. NIM 5203111019. Penerapan Model Pembelajaran *Self Directed Learning* Berbantuan Smart Apps Creator Pada Mata Pelajaran Dasar-Dasar Konstruksi Bangunan Untuk Meningkatkan Hasil Belajar Siswa Kelas X SMK Negeri 14 Medan. Skripsi. Fakultas Teknik – Universitas Negeri Medan. 2024

Penelitian ini merupakan Penelitian Tindakan Kelas (PTK) yang bertujuan untuk menerapkan model pembelajaran yang dapat meningkatkan hasil belajar mata pelajaran Dasar-Dasar Konstruksi Bangunan pada elemen 8. Spesifikasi dan Karakteristik Bahan Bangunan Berbasis Green Material di kelas X Program Keahlian Desain Pemodelan dan Informasi Bangunan SMK Negeri 14 Medan Tahun Ajaran 2024/2025 yang berjumlah 36 siswa. Prosedur tindakan dilaksanakan dalam tiga siklus yang masing-masing siklus terdiri dari dua kali pertemuan. Setiap siklus memiliki tahapan perencanaan (*planning*), pelaksanaan (*action*), pengamatan (*observation*) dan refleksi (*reflection*).

Data penelitian diambil dari tes hasil belajar siswa di tiap siklus. Hasil uji coba instrument penelitian dari 25 soal pada siklus I terdapat 20 butir soal yang valid, uji coba reliabilitas tes didapat 1,00 (sangat tinggi), uji tingkat kesukaran terdapat 1 butir soal mudah, dan 19 butir soal sedang, uji daya pembeda soal didapat 13 soal cukup, dan 7 soal baik. Pada siklus II dari 25 soal diperoleh 20 butir soal yang valid, uji reliabilitas tes didapat 1,00 (sangat tinggi), uji tingkat kesukaran terdapat 19 soal sedang, dan 1 butir soal sukar, uji daya beda soal didapat 10 soal cukup, 8 soal baik, dan 2 soal baik sekali. Penelitian ini dikatakan berhasil diukur berdasarkan nilai hasil belajar siswa memperoleh nilai diatas 75 sesuai dengan Kriteria Ketuntasan Minimal yang ditetapkan dan terdapat peningkatan yang signifikan dari siklus I ke siklus II.

Hasil penelitian menunjukkan perolehan hasil belajar siswa pada siklus I mencapai 79,58 dengan persentase lulus 80,05% meningkat pada siklus ke II menjadi 83,75 dengan persentase lulus 100%. Siklus ke III menjadi 85 dengan persentase lulus 100%. Berdasarkan hasil penelitian dapat disimpulkan bahwa dengan menerapkan model pembelajaran *Self Directed Learning* Berbantuan *Smart Apps Creator* dapat meningkatkan hasil belajar Dasar-Dasar Konstruksi Bangunan kelas X Program Keahlian Desain Pemodelan dan Informasi Bangunan di SMK Negeri 14 Medan Tahun Ajaran 2024/2025.

Kata Kunci : Hasil Belajar, *Self Directed Learning*, SAC, Penelitian Tindakan Kelas

ABSTRACT

Siti Nurma Hasan Nia Siregar. NIM 5203111019. Implementation of Self Directed Learning Model by Smart Apps Creator in the Basics of Building Construction Subject to Improve Learning Outcomes of Class X Students of SMK Negeri 14 Medan. Thesis. Faculty of Engineering - State University of Medan. 2024

This research is a Classroom Action Research (CAR) which aims to apply a learning model that can improve learning outcomes in the Basics of Building Construction subject on element 8. Specifications and Characteristics of Green Material-Based Building Materials in class X of the Building Information and Modeling Design Expertise Program of SMK Negeri 14 Medan in the 2024/2025 Academic Year, totaling 36 students. The action procedure was carried out in three cycles, each cycle consisting of two meetings. Each cycle has stages of planning, implementation (action), observation (observation) and reflection (reflection).

The research data were taken from student learning outcome tests in each cycle. The results of the research instrument trial of 25 questions in cycle I contained 20 valid questions, the test reliability test was 1.00 (very high), the difficulty level test contained 1 easy question, and 19 moderate questions, the question discrimination power test obtained 13 sufficient questions, and 7 good questions. In cycle II of 25 questions obtained 20 valid questions, the test reliability test obtained 1.00 (very high), the difficulty level test contained 19 moderate questions, and 1 difficult question, the question discrimination power test obtained 10 sufficient questions, 8 good questions, and 2 very good questions. This research is said to be successful as measured based on the value of student learning outcomes obtaining a score above 75 in accordance with the Minimum Completion Criteria set and there is a significant increase from cycle I to cycle II. The results of the study showed that the achievement of student learning outcomes in cycle I reached 79.58 with a passing percentage of 80.05% increasing in cycle II to 83.75 with a passing percentage of 100%. Cycle III became 85 with a passing percentage of 100%. Based on the results of the study, it can be concluded that by implementing the Self Directed Learning learning model Assisted by Smart Apps Creator, it can improve the learning outcomes of the Basics of Building Construction for class X of the Building Modeling and Information Design Expertise Program at SMK Negeri 14 Medan in the 2024/2025 Academic Year.

Keywords : *Learning Outcomes, Self Directed Learning, SAC, Classroom Action Research*