

ABSTRAK

Muhammad Ilham Lubis. Nim 5132111017. Penerapan Model Pembelajaran Berbasis Masalah (*Problem Based Learning*) Untuk Meningkatkan Hasil Belajar Dasar-dasar Konstruksi Bangunan dan Teknik Pengukuran Tanah Pada Siswa Kelas X Program Keahlian Teknik Konstruksi dan Properti SMK Negeri 1 Percut Sei Tuan Tahun Ajaran 2019/2020. Skripsi, Fakultas Teknik Universitas Negeri Medan. 2020

Penelitian ini bertujuan untuk mengetahui peningkatan hasil belajar siswa pada mata pelajaran Dasar-dasar Konstruksi Bangunan dan Teknik Pengukuran Tanah melalui penerapan model *problem based learning* pada siswa kelas X Program keahlian Teknik Konstruksi dan Properti SMK Negeri 1 Percut Sei Tuan semester ganjil Tahun Ajaran 2019/2020 yang berjumlah 30 orang.

Rancangan penelitian yang digunakan adalah penelitian tindakan kelas (PTK). Prosedur tindakan dikemas ke dalam dua siklus pembelajaran. Dimana siklus pertama mempelajari sifat fisik, mekanik dan kimia kayu. Dan siklus kedua mempelajari mutu dan kelas kayu dan kekurangan kayu sebagai bahan konstruksi. Setiap siklus terdiri dari tahapan perencanaan, tindakan, pengamatan dan refleksi. Hasil penelitian diambil dari tes hasil belajar siswa dan lembar observasi. Penelitian dikatakan berhasil diukur berdasarkan rata-rata kumulatif hasil belajar siswa memperoleh nilai minimal 75 dan tuntas secara klasikal jika seluruh kelas $\geq 75\%$ siswanya tuntas.

Hasil penelitian menunjukkan nilai hasil belajar siswa mengalami peningkatan, yaitu pada siklus I rata-rata hasil belajar siswa 80,13 dengan presentase ketuntasan siswa mencapai 73,33%, dengan capaian target 26,67% nilai <75 dan 73,33% nilai ≥ 75 . Dan pada siklus II mengalami peningkatan nilai rata-rata hasil belajar siswa mencapai 85,96 dengan presentase ketuntasan siswa mencapai 100 % atau 30 siswa dengan keterangan "Tuntas" yang mendapat nilai ≥ 75 . Dengan demikian, dapat disimpulkan bahwa penerapan model *problem based learning* untuk meningkatkan Hasil Belajar Dasar-dasar Konstruksi Bangunan dan Teknik Pengukuran Tanah Pada Siswa Kelas X Program Keahlian Teknik Konstruksi dan Properti SMK Negeri 1 Percut Sei Tuan Tahun Ajaran 2019/2020 membuktikan peningkatan hasil belajar. Maka, dari hasil penelitian di atas pengajuan hipotesis yang menyatakan bahwa : 1) penerapan model *problem based learning* dapat meningkatkan hasil belajar Dasar-dasar Konstruksi Bangunan dan Teknik Pengukuran Tanah dapat diterima.

Kata kunci : Model *Problem Based Learning*, Hasil Belajar.



ABSTRACT

Muhammad Ilham Lubis. Nim 5132111017. The Implementation of Problem Based Learning Models to Improve Learning Outcomes the Basics of Building Construction and Soil Measurement Techniques at grade X Students of Construction Engineering and Property Program in SMK Negeri 1 Percut Sei Tuan Academic Year 2019/2020. Faculty of Engineering State University of Medan. 2020

This research aims to determine the improving of students' learning outcomes in the subjects the Basics of Building Construction and Soil Measurement Techniques through the implementation of problem based learning models at grade X students of the Construction Engineering and Property Program in SMK Negeri 1 Percut Sei Tuan odd semester of Academic Year 2019/2020 with a total 30 person.

The research design used was classroom action research (CAR). The procedure of action research was packaged into two learning cycles. Where the first cycle studied the physical, mechanical and chemical properties of wood. And the second cycle studied the quality and class of wood and wood shortages as construction material. Each cycle consists of the stages of planning, action, observation and reflection. The results of the research were taken from student learning outcomes tests and observation sheets. The research is said to have been successfully measured based on the cumulative average of student learning outcomes got minimum score 75 and to be passed classically if the entire class is $\geq 75\%$ of students were passed.

The results showed the score of student learning outcomes have increased, in the first cycle the average score student learning outcomes 80,13 with the percentage of students were passed reached 73.33%, with achievement target 26.67% score <75 and 73.33% score ≥ 75 . And in the second cycle got an increase in the average score of student learning outcomes reached 85.96 with a percentage of students passed reached 100% or 30 students with a description of "Passed" got scored ≥ 75 . Thus, it can be concluded that the implementation of the problem based learning model to improve the Learning Outcomes of the Basics of Building Construction and Soil Measurement Techniques at grade X Students of the Construction Engineering and Property Program in SMK Negeri 1 Percut Sei Tuan Academic Year 2019/2020 proves the increasing in learning outcomes. So, from the results above, the hypothesis is stated that: 1) the implementation of the problem based learning model can improve learning outcomes the Basics of Building Construction and Soil Measurement Techniques can be accepted.

Keywords: Problem Based Learning Model, the results of the study.

