

ABSTRAK

WIRA BUANA NAINGGOLAN, NIM. 5133311007. *Hubungan Kemampuan Membaca Gambar dan Pemahaman Tentang Konstruksi Bangunan dengan Hasil Belajar Gambar Konstruksi Bangunan siswa kelas XII SMK Negeri 2 Medan.* Skripsi. Fakultas Teknik – Universitas Negeri Medan. 2019

Penelitian ini bertujuan untuk mengetahui : 1) Adanya hubungan antara kemampuan membaca gambar terhadap hasil belajar siswa kelas XII mata pelajaran Gambar Konstruksi Bangunan di SMK Negeri 2 Medan. 2) Adanya hubungan antara pemahaman tentang konstruksi bangunan terhadap hasil belajar siswa kelas X mata pelajaran Gambar Konstruksi Bangunan di SMK Negeri 2 Medan. 3) Adanya hubungan antara kemampuan membaca gambar dan pemahaman tentang konstruksi bangunan secara bersama-sama terhadap hasil belajar siswa kelas XII mata pelajaran Gambar Konstruksi Bangunan di SMK Negeri 2 Medan.

Sebelum penelitian ini dilakukan instrumen penelitian terlebih dahulu di uji cobakan, dilanjutkan dengan uji validitas, Reliabilitas, indeks kesukaran, dan daya pembeda soal. Berdasarkan pengujian hipotesis dapat disimpulkan

1) Terdapat hubungan yang positif dan berarti antara Kemampuan Membaca Gambar dengan Hasil Belajar Gambar Konstruksi Bangunan Kelas XII SMK Negeri 2 Medan. Hal ini dibuktikan dengan hasil perhitungan korelasi yang memberikan hasil nilai $r_{xy} > r_{tabel} = 0,7194 > 0,361$ dengan harga $t_{hitung} > t_{tabel} = 5,6721 > 2,0484$. 2) Terhadap hubungan positif dan berarti antara Pemahaman Tentang Konstruksi Bangunan dengan hasil belajar Gambar Konstruksi Bangunan siswa kelas X SMK Negeri 2 Medan. Hal ini dibuktikan dari perhitungan korelasi yang memberikan hasil nilai $r_{x2y} > r_{tabel} = 0,867 > 0,361$ dengan harga $t_{hitung} > t_{tabel} = 9,5317 > 2,0484$. 3) Terdapat Hubungan yang positif dan berarti antara Kemampuan Membaca Gambar dan Pemahaman tentang Konstruksi Bangunan dengan Hasil Belajar Gambar Konstruksi Bangunan siswa kelas XII SMK Negeri 2 Medan. Hal ini dibuktikan dari perhitungan korelasi yang memberikan hasil $r_{x1x2y} > r_{tabel} = 0,7262 > 0,361$ dan diperoleh determinasi R^2 sebesar 0,76879 yang berarti Kemampuan Membaca Gambar (X_1) dan Pemahaman Tentang Konstruksi Bangunan (X_2) dengan harga hitung $f_{hitung} = 44,889 > f_{tabel} = 3,35$.

Dengan demikian Kemampuan Membaca Gambar dan Pemahaman Tentang Konstruksi bangunan mempunyai hubungan yang positif dan berarti dengan Hasil Belajar Gambar Konstruksi Bangunan.

Kata Kunci: *Kemampuan Membaca Gambar, Pemahaman Konstruksi Bangunan, Hasil Belajar Gambar Konstruksi Bangunan.*

ABSTRACT

WIRA BUANA NAINGGOLAN, NIM. 5133311007. *Relation of the Ability to Read Pictures and Understanding of Building Construction with Learning Outcomes in Building Construction Pictures of class XII students of SMK Negeri 2 Medan. Essay. Faculty of Engineering - Medan State University. 2019*

This study aims to find out: 1) There is a relationship between the ability to read images on the learning outcomes of students of class XII subjects in Building Construction Pictures in SMK Negeri 2 Medan. 2) There is a relationship between understanding of building construction on the learning outcomes of class X students in the subject of Building Construction Pictures at SMK Negeri 2 Medan. 3) There is a relationship between the ability to read pictures and an understanding of building construction together on the learning outcomes of class XII students in the subject of Building Construction Pictures at SMK Negeri 2 Medan.

Before this research was conducted research instruments were first tested, followed by tests of validity, reliability, difficulty index, and differentiation of questions. Based on testing the hypothesis can be concluded. 1) There is a positive and meaningful relationship between the ability to read pictures and learning outcomes of drawing on class XII building construction at SMK Negeri 2 Medan. This is evidenced by the results of the calculation of the correlation that gives the results of the $r_{xly} > r_{table} = 0.7194 > 0.361$ with the price of $t_{count} > t_{table} = 5.6721 > 2.0484$. 2) Towards a positive and meaningful relationship between Security About Building Construction and the learning outcomes of Building Construction Pictures of class X students of SMK Negeri 2 Medan. This is evidenced from the correlation calculation which gives $r_{x2y} > r_{table} = 0.867 > 0.361$ with the price of $t_{count} > t_{table} = 9.5317 > 2.0484$. 3) There is a positive and meaningful relationship between the ability to read the image and an understanding of the construction of buildings with the learning outcomes of building construction drawings of class XII students of SMK Negeri 2 Medan. This is evidenced from the correlation calculation that gives the results of $r_{x1x2y} > r_{table} = 0.7262 > 0.361$ and obtained R^2 determination of 0.76879 which means the ability to read the image (X1) and the understanding of building construction (X2) with a calculated value = 44,889 > $f_{table} = 3.35$.

Thus the ability to read images and understanding of building construction has a positive and meaningful relationship with the learning outcomes of building construction drawings.

Keywords: *Image Reading Ability, Understanding of Building Construction, Learning Outcomes in Building Construction Pictures.*