

## ABSTRAK

HADIWONO SITANGGANG, NIM 5163121014 : *Hubungan Antara Aktivitas Belajar Daring dan Kemandirian Belajar Daring Dengan Hasil Belajar Pekerjaan Dasar Teknik Mesin Kelas X SMK PAB 1 Helvetia*. Skripsi. Fakultas Teknik. Universitas Negeri Medan. 2021.

Penelitian ini bertujuan untuk mengetahui besar hubungan antara Aktivitas Belajar Daring dan Kemandirian Belajar Daring Dengan Hasil Belajar Pekerjaan Dasar Teknik Mesin Kelas X SMK PAB 1 Helvetia. Penelitian ini menggunakan pendekatan *penelitian kuantitatif* dengan metode penelitian korelasional, dengan menggunakan instrumen angket model Likert dan tes hasil belajar.

Jumlah sampel dalam penelitian ini berjumlah 70 siswa, cara pengambilan sampel dalam penelitian ini menggunakan metode Kerjcie Morgan (Isaac dan Michael) dengan tingkat kesalahan = 5%. Uji validitas instrumen menggunakan koefisien korelasi Product Moment, dan uji reliabilitas menggunakan Alpha Cronbach dan Koefisien Kesepakatan. Hasil penelitian di analisis menggunakan koefisien korelasi Product Moment, Korelasi Parsial, dan Korelasi Ganda dengan bantuan program SPSS 25.0.

Hasil penelitian menunjukkan bahwa; (1) terdapat hubungan signifikan antara aktivitas belajar daring dengan hasil belajar pdtm kelas X SMK PAB 1 Helvetia. Dengan persamaan regresi  $\hat{Y} = 28,467 + 0,524 X_1$ , diperoleh nilai koefisien korelasi sebesar 0,425; (2) terdapat hubungan signifikan antara kemandirian belajar daring dengan hasil belajar pdtm kelas X SMK PAB 1 Helvetia. Dengan persamaan regresi  $\hat{Y} = 34,077 + 0,443 X_2$ , diperoleh nilai koefisien korelasi sebesar 0,373; (3) terdapat hubungan signifikan antara Aktivitas Belajar Daring Dan Kemandirian Belajar Daring Dengan Hasil Belajar Pekerjaan Dasar Teknik Mesin Kelas X SMK PAB 1 Helvetia. Dengan persamaan regresi  $\hat{Y} = 5,040 + 0,429 X_1 + 0,327 X_2$ , diperoleh nilai koefisien korelasi sebesar ( $R = 0,501$ ). Hasil analisis regresi tersebut adalah sebagai berikut :  $F_h = 11,210$  harga  $F_t = 3,133$  pada taraf signifikan 5%, sehingga  $F_h > F_t$  ( $11,210 > 3,133$ ). Dengan demikian variabel aktivitas belajar daring, kemandirian belajar daring, dan hasil belajar mata pelajaran pdtm memiliki hubungan yang signifikan.

Kata Kunci : **Aktivitas Belajar Daring, Kemandirian Belajar Daring, Hasil Belajar PDTM**

## ABSTRACT

HADIWONO SITANGGANG, NIM 5163121014: *The Relationship Between Online Learning Activities and Independent Learning Online With The Learning Outcomes of Basic Mechanical Engineering Work Class X SMK PAB 1 Helvetia*. Essay. Faculty of Engineering. Universitas Negeri Medan. 2021.

This study aims to determine the relationship between online learning activities and online learning independence with learning outcomes for basic mechanical engineering work in class X SMK PAB 1 Helvetia.. This study uses a quantitative research approach with correlational research methods, using a Likert model questionnaire instrument and learning outcomes tests.

The number of samples in this study amounted to 70 students, the method of sampling in this study used the Morgan (Isaac and Michael) work method with an error rate of = 5%. Test the validity of the instrument using the Product Moment correlation coefficient, and the reliability test using the Cronbach Alpha and the Agreement Coefficient. The results of the research were analyzed using the Product Moment correlation coefficient, Partial Correlation, and Multiple Correlation with the help of the SPSS 25.0 program.

The results showed that; (1) there is a significant relationship between online learning activities and learning outcomes of basic mechanical engineering work for class X SMK PAB 1 Helvetia. With the regression equation  $\hat{Y} = 28,467 + 0,524 X_1$ , the correlation coefficient is 0.425; (2) there is a significant relationship between online learning independence and the results of learning basic mechanical engineering work for class X SMK PAB 1 Helvetia. With the regression equation  $\hat{Y} = 34,077 + 0,443 X_2$ , the correlation coefficient is 0.373; (3) there is a significant relationship between online learning activities and online learning independence with learning outcomes for basic mechanical engineering work for class X SMK PAB 1 Helvetia. With the regression equation  $\hat{Y} = 5,040 + 0,429 X_1 + 0,327 X_2$ , the correlation coefficient value is obtained ( $R = 0.501$ ). The results of the regression analysis are as follows:  $F_h = 11,210$ , the price of  $F_t = 3,133$  at the 5% significant level, so that  $F_h > F_t$  ( $11,210 > 3,133$ ). Thus, the variables of online learning activities, online learning independence, and learning outcomes for PDTM subjects have a significant relationship..

Keywords: **Online Learning Activities, Online Learning Independence, PDTM Learning Outcomes**