

## ABSTRAK

**APRIANTO JOGI MANIK NIM 5153311004. 'Pengaruh Model Pembelajaran *Project Based Learning* Terhadap Peningkatan Hasil Belajar Mata Pelajaran Gambar Teknik Pada Siswa Kelas X Program Keahlian Desain Pemodelan dan Informasi Bangunan di SMK Negeri 2 Medan'. Skripsi, Fakultas Teknik-Universitas Negeri Medan. 2019.**

Penelitian ini bertujuan untuk mengetahui : Pengaruh Model *Project Based Learning* Terhadap Peningkatan Hasil Belajar Mata Pelajaran Gambar Teknik Pada Siswa Kelas X Program Keahlian Desain Pemodelan dan Informasi Bangunan di SMK Negeri 2 Medan. Tahun Pelajaran 2019/2020. Penelitian ini dilakukan pada siswa kelas X Program Keahlian Desain Pemodelan dan Informasi Bangunan SMK Negeri 2 Medan. Populasi dalam penelitian ini adalah siswa kelas X Program Keahlian Desain Pemodelan dan Informasi Bangunan yang berjumlah 63 siswa. Kelas kontrol X TGB-1 terdiri dari 30 siswa dan X TGB-2 33 siswa. Sebelum melaksanakan penelitian kelas eksperimen dan kelas kontrol diberikan pretest dan di akhir pembelajaran diberikan *posttest*. Hasil analisis data dari hasil pretest yang diperoleh kelas eksperimen yaitu,  $X = 38,100$  dengan nilai tertinggi 54 dan terendah 25. Sedangkan pada kelas kontrol  $X = 39,364$  dengan nilai tertinggi 54 dan terendah 25. Kemudian kelas eksperimen diberi perlakuan dengan menggunakan model pembelajaran *Project Based Learning* dan pada kelas kontrol diberikan perlakuan dengan metode pembelajaran konvensional. Hasil analisis data dari hasil *posttest* yang diperoleh kelas eksperimen yaitu,  $X = 84,367$  dengan nilai tertinggi 92 dan terendah 75. Sedangkan pada kelas kontrol  $X = 80,091$  dengan nilai tertinggi 88 dan terendah 72. Pengujian hipotesis dilakukan dengan rumus uji-t, dari data perhitungan hipotesis dengan taraf signifikan 5% diperoleh  $t_{hitung} > t_{tabel}$  ( $7,80976 > 1,670$ ), maka  $H_a$  diterima dan  $H_0$  ditolak. Dengan demikian dapat disimpulkan bahwa hasil belajar siswa menggunakan model pembelajaran *Project Based Learning* memberikan nilai yang lebih tinggi daripada hasil belajar yang menggunakan metode pembelajaran konvensional pada mata pelajaran gambar teknik.

**Kata Kunci:** Hasil Belajar, *Project Based Learning*, gambar teknik



## ABSTRACT

**APRIANTO JOGI MANIK NIM 5153311004. "The Effect of the Project Based Learning Model on Improving Learning Outcomes of Technical Drawing Subjects in Class X Students of Model Design and Building Information Skills Program in SMK Negeri 2 Medan". Thesis, Faculty of Engineering - Medan State University. 2019.**

This study aims to determine the influence of learning model of Project Based Learning on improving the results of Learning Outcomes of Technical Drawing Subjects in Class X Students of Model Design and Building Information Skills Program in SMK Negeri 2 Medan Lessons 2019/2020. This research was conducted on the students of class X Students of Model Design and Building Information Skills Program in SMK Negeri 2 Medan. The population in this research was the students of X class of Building Material Engineering Program which consist of 63 students. The control class X TGB-1 consists of 30 students and X TGB-2 33 students. Before conducting the experimental class research and control class is given pretest and at the end of the learning is given posttest. Result of data analysis from result of pretest obtained by experiment class that is,  $\bar{x} = 38,100$  with highest value 54 and lowest 25. While in control class  $\bar{x} = 39,364$  with highest score 76 and lowest 48. Then experiment class is treated by using project based learning model and control classes were given treatment with conventional learning methods. Result of data analysis from posttest result obtained by experiment class that is,  $\bar{x} = 84,367$  with highest value 92 and lowest 75. While in control class  $\bar{x} = 80,091$  with highest value 88 and lowest 72. Hypothesis testing is done by t-test formula, from data of hypothesis calculation with significant level 5% obtained  $t_{count} > t_{table}$  is  $7,80976 > 1,670$ , then  $H_a$  accepted and  $H_o$  rejected. Thus it can be concluded that the learning outcomes of students using the learning model of Project Based Learning provides a higher value than the learning outcomes that use conventional learning methods on the subjects of engineering drawings.

**Keyword :** Learning Outcomes, *Project Based Learning*, engineering drawing