

## ABSTRACT

**Maman Rianko, 2018. *The Effect of Discovery Learning Learning Model and Learning Motivation on Mathematics Learning Outcomes of Class XI Students at Lahat Vocational High School 1.***

*This research was motivated by the low results of mathematics learning in class XI students of Lahat Vocational High School 1. The low formulation of learning outcomes is one of the contributing factors, namely the learning model used by teachers is less varied. The formulation of this study are: (1) Is there a difference in learning outcomes between the Discovery Learning model and the conventional learning model in mathematics at Lahat Vocational High School 1 ?. (2) Is there a difference in learning outcomes between the Discovery Learning models that have high learning motivation and conventional learning models that have high learning motivation on math lessons students at Lahat Vocational High School 1 ?. (3) Are there differences in learning outcomes between the Discovery Learning models that have low learning motivation with conventional learning models that have low learning motivation on math subjects students in Lahat Vocational High School 1 ?. (4) Are there interactions between learning models and learning motivation ?.*

*This type of research is quasi experiment. The population in this study were all students of class XI at Lahat Vocational High School 1 automotive engineering expertise program for 2017-2018 years as many as 56 students. Samples were taken using purposive sampling techniques. the experimental class is class XI TSM 1 and class XI TSM.2 control class. Data analysis was carried out through learning outcomes tests and learning motivation questionnaires which were analyzed by t-test and anova.*

*The results revealed (1) There were differences in learning outcomes between the Discovery Learning model and conventional learning models in class XI mathematics subjects at Lahat Vocational High School 1. (2) There were differences in mathematics learning outcomes between the Discovery Learning models that had high learning motivation and conventional learning models that have high learning motivation in class XI of Lahat Vocational High School 1. (3) There are differences in mathematics learning outcomes between the Discovery Learning models that have low learning motivation and conventional learning models that have low learning motivation in class XI of Lahat Vocational High School 1. (4) There is no interaction between the learning model and learning motivation towards student learning outcomes on mathematics subjects.*

**Keyword:** *Learning Outcomes, Discovery Learning, Learning Motivation*

## ABSTRAK

**Maman Rianko, 2018. Pengaruh Model Pembelajaran *Discovery Learning* dan Motivasi Belajar Terhadap Hasil Belajar Matematika Siswa Kelas XI Di SMK Negeri 1 Lahat. Tesis Pascasarjana Fakultas Teknik Universitas Negeri Padang.**

Penelitian ini dilatar belakangi rendahnya hasil belajar matematika siswa kelas XI SMK Negeri 1 Lahat. Rumusan rendahnya hasil belajar salah satu faktor penyebabnya yaitu model pembelajaran yang digunakan oleh guru kurang bervariasi. Adapun rumusan penelitian ini yaitu: (1) Apakah terdapat perbedaan hasil belajar antara model pembelajaran *Discovery Learning* dengan model pembelajaran konvensional pada matematika di SMK Negeri 1 Lahat?. (2) Apakah terdapat perbedaan hasil belajar antara model pembelajaran *Discovery Learning* yang memiliki motivasi belajar tinggi dengan model pembelajaran konvensional yang memiliki motivasi belajar tinggi pada pelajaran matematika siswa di SMK Negeri 1 Lahat?. (3) Apakah terdapat perbedaan hasil belajar antara model pembelajaran *Discovery Learning* yang memiliki motivasi belajar rendah dengan model pembelajaran konvensional yang memiliki motivasi belajar rendah pada mata pelajaran matematika siswa di SMK Negeri 1 Lahat?. (4) Apakah terdapat interaksi antara model pembelajaran dengan motivasi belajar?.

Jenis penelitian adalah *quasi experiment*. Populasi dalam penelitian ini seluruh siswa kelas XI di SMK Negeri 1 Lahat Program keahlian Teknik Otomotif tahun pelajaran 2017-2018 sebanyak 56 siswa. Sampel diambil dengan menggunakan teknik *Purposive Sampling*. kelas eksperimen yaitu kelas XI TSM 1 dan kelas kontrol kelas XI TSM.2. Analisis data dilakukan melalui tes hasil belajar dan kuesioner motivasi belajar yang dianalisis dengan *Uji-t* dan *Anova*.

Hasil penelitian mengungkapkan (1) Terdapat perbedaan hasil belajar antara model pembelajaran *Discovery Learning* dengan model pembelajaran konvensional pada mata pelajaran matematika kelas XI di SMK Negeri 1 Lahat.(2) Terdapat perbedaan hasil belajar matematika antara model pembelajaran *Discovery Learning* yang memiliki motivasi belajar tinggi dengan model pembelajaran konvensional yang memiliki motivasi belajar tinggi pada kelas XI SMK Negeri 1 Lahat. (3) Terdapat perbedaan hasil belajar matematika antara model pembelajaran *Discovery Learning* yang memiliki motivasi belajar rendah dengan model pembelajaran konvensional yang memiliki motivasi belajar rendah pada kelas XI SMK Negeri 1 Lahat. (4) Tidak terdapat interaksi antara model pembelajaran dan motivasi belajar terhadap hasil belajar siswa pada mata pelajaran matematika.

**Kata Kunci:** Hasil Belajar, Pembelajaran *Discovery Learning*, Motivasi Belajar