

**THE COMPARISON OF MOTIVATION AND RESULTS OF STUDENT  
LEARNING WHICH HAS BEEN AND HAS BEEN NOT ADVISED OF  
ENGINEERING PROJECT IN MIND MAP OF THE HUMAN  
NERVOUS SYSTEM IN CLASS XI SCIENCE SAINT  
JOSEPH HIGH SCHOOL PRIVATE MEDAN  
ACADEMIC YEAR 2012/2013**

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**ABSTRACT**

This study aims to determine whether there is a comparison of motivation and learning outcomes between students who are given the task of techniques with a mind map mind maps are not given on the material engineering Nervous System in Humans in Class XI Science Saint Joseph High School Private Medan academic year 2012/2013.

The population in this study were all students of class XI Science Saint Joseph High School Private Medan Year 2012/2013 consisting of 2 classes with the number of students by 82 people. Samples were taken in total by the number of sampling as many as 82 students of class XI, comprising as much as XI IPA 1 and class XI IPA 2 by 41 people.

Based on the analysis of data, the average learning outcomes of students who are given the task by using a mind map is 72 while the average student learning outcomes given the task without using a mind map technique for 55.8. For hypothesis testing using t-test confidence level of the party and  $\alpha = 0.05$  where  $t_{hit} > t_{tab}$  ( $7.63 > 1.99$ ), which means that  $H_0$  is rejected in this study as well as accept  $H_a$ . Based on the calculation of scores obtained by the students' motivation to learn the value of the percentage of students in the classical motivation for the experimental class was 76.37% and 58.77% for the control class. From the calculation of hypothesis testing using t-test and confidence level  $\alpha = 0.05$  where  $t_{hit} > t_{tab}$  ( $16.83 > 1.99$ ), which means that  $H_0$  is rejected in this study as well as accept  $H_a$ . It can be concluded that the motivation and learning outcomes of students who were given the task by using a mind map is higher than the motivation and learning outcomes of students who were given the task without the use of mind maps on the material engineering Nervous System in Humans in Class XI Science Saint Joseph High School Private Medan Year Learning 2012/2013.