THE EFFECT OF GUIDED DISCOVERY LEARNING METHOD ON STUDENT'S LEARNING ACHIEVEMENT OF STATIC FLUID IN CLASS XI SMA NEGERI 1 SERDANG BEDAGAI ACADEMIC YEAR 2015/2016

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ABSTRACT

The objectives of this research are: (1) to know the student's learning outcomes in physics subject after taught by Guided Discovery Learning Model, (2) to know the student's learning achievement in physics subject after taught by Conventional Learning, (3) to know the effect of Guided Discovery Learning Model on student's learning achievement of Static Fluid in Class XI SMA N 1 Serdang Bedagai Academic Year 2015/2016. The research method was quasi experimental. The research subject were populations were all XI IPA semester II SMA N 1 Serdang Bedagai that consist of 2 classes. Each class consist 25 students, XIIPA2 as experiment class, XIIPA1 as control class.

From data analyze results were obtained: pre-test mean value of experiment class was 21.19 and 18.68 for control class and then post-test mean value of the experiment class was 64.96 and 56.52 was the mean value for control class. Standard deviation in pre-test was 3.02 in experiment class and 2.97 in control class and standard deviation in post-test for two classes were 8.59 and 7.54. Both samples was normal distribution and homogenous. Hypothesis test for post-test using t-test one side, the criteria is : H_a is accepted if $t_{count} > t_{table}$ and is rejected if t_{count} has another score. From the calculation of t-test one side obtained $t_{count} = 3.89$, where $t_{table} = 2.012$, $t_{count} > t_{table}$. So, there is effect of Guided Discovery Learning Model on Student's Learning achievement in Static Fluid in Class XI SMA N 1 Serdang Bedagai.

Linear equation has a value that increases slope. If seen from the graph, the value of a at $y_{post}=0.833x+54.05$ bigger than the value of a at $y_{pre}=0.405x+15.85$. However, from the graph it appears that the value $a_{post} > a_{pre}$, which indicates that the activity is affect the value of learning outcomes.

Key word: Guided Discovery Learning Method, student's learning achievement, activity.