

**THE EFFECT OF COOPERATIVE LEARNING MODEL OF GROUP
INVESTIGATION (GI) TYPE USING MACROMEDIA FLASH
TOWARD PHYSICS OUTCOMES OF STUDENTS
SMAN 1 SIDIKALANG A.Y. 2015/2016**

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ABSTRACT

The purpose of this research is to know the physics outcomes of the students was taught using Cooperative Learning Model Of Group Investigation (GI) Type Using Macromedia Flash SMAN 1 Sidikalang in subject matter of dynamic electricity class X Academic Year 2015/2016, to know the physics outcomes of the students was taught using conventional learning model, and to know the effect in physics outcomes of the students was taught using cooperative learning model of group investigation (GI) Type using macromedia flash.

The type of research is quasi experimental research. The population were all the student of class X, consist of 11 classes. Two class is selected random cluster sampling as sample. One class as experimental class was tretment by Cooperative Learning Model Through Group Investigation type using macromedia flash and another class as control class was treatment by conventional learning. Instrument that used as learning result test, in the form of multiple choice questions as the amount is twenty items that contains of five options and already valid.

The result of quantitative analysis of pretest mean experimental class and control class homogeneous and the posttest mean is experimental class is higher than in control class. Data of result research is taken from normally distribution and homogeneous. To test the hypothesis, used the t-test with significant level α 0.05. If $t_{\text{count}} > t_{\text{table}}$ that means H_a is accepted and H_o is rejected thus the are significant difference between the physics outcomes of student in experimental class and in the control class. Because of the difference it means there are significant effect of Cooperative Learning Model through Group Investigation type using macromedia flash toward physics outcomes of students in higher outcomes than conventional learning.

Keywords : Cooperative Learning, Group Investigation, Macromedia Flash, Students Outcomes.