

ABSTRACT

Rizki Anisa Tanjung. 2021. “ Meta Analysis of the Effect of Cooperative Type Group Investigation (GI) Model on Student’s Competence in Physics Learning ”

Education is one of the foundations in advancing a nation and state. Various efforts in improving the quality of education are by choosing the right learning model. The Group Investigation (GI) model is very actively used to improve learning because it can provide more learning control than other learning models. The first real condition that researchers found was that the learning model implemented in schools was still conventional. The second real condition found by researchers is that the learning outcomes of students are still low. students' conceptual knowledge is also low. and students only memorize concepts. This study aims to determine the effect size of the influence of the group investigation (gi) type cooperative model on student competence in physics learning based on class level, subject matter units, and student competencies.

The meta-analysis research method is a descriptive research method that is to analyze the results of previous research. The meta-analysis research method will use effect size analysis techniques. This meta-analysis method will involve the activities of collecting, processing, and presenting data systematically and objectively to test research hypotheses by conducting investigations into researches by conducting existing research by outlining and examining parts of each study. The results of this effect size calculation will be interpreted to answer the hypothesis of the gap in the results of the relevant research.

The results of the study revealed that the application of the group investigation (gi) type cooperative model had an effective effect on the class X and XI levels. The application of the group investigation (gi) type cooperative model also has an effective effect on four units of Physics learning materials namely : quantity and measurement, mechanics, fluids, and electricity. However, the application of this group investigation (gi) type cooperative model has no effective effect on the units of temperature and heat matter. Finally, the application of this group investigation (gi) type cooperative model has proven effective in increasing student competence in the cognitive, affective, and psychomotor realms.

Keywords : *Meta Analysis, Cooperative Group Investigation Type Model, Student’s Competence, Physics Learning*