

ABSTRAK

Adelia Pratistha, NIM 4211121004, Pengaruh Model Pembelajaran Kooperatif Tipe *Group Investigation* Pada Materi Fluida Statis Terhadap Kolaborasi dan Komunikasi Siswa Kelas XI SMA Negeri 1 Percut Sei Tuan

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran kooperatif tipe *Group Investigation* terhadap kolaborasi dan komunikasi siswa pada materi fluida statis di kelas XI SMA Negeri 1 Percut Sei Tuan. Latar belakang penelitian ini adalah rendahnya keterampilan kolaborasi dan komunikasi siswa dalam pembelajaran fisika yang masih cenderung berpusat pada guru. Oleh karena itu, diperlukan model pembelajaran yang mampu melibatkan siswa secara aktif dalam proses belajar, salah satunya melalui penerapan model *Group Investigation*. Penelitian ini menggunakan metode kuasi eksperimen dengan desain *nonequivalent control group design*. Sampel penelitian terdiri atas dua kelas, yaitu kelas eksperimen yang diberi perlakuan menggunakan model pembelajaran *Group Investigation* dan kelas kontrol yang menggunakan model pembelajaran *Direct Instruction*. Instrumen penelitian berupa lembar observasi untuk mengukur keterampilan kolaborasi dan komunikasi siswa. Data yang diperoleh dianalisis melalui uji normalitas, uji homogenitas, serta uji hipotesis menggunakan analisis Ancova. Hasil penelitian menunjukkan bahwa terdapat pengaruh signifikan model pembelajaran kooperatif tipe *Group Investigation* terhadap keterampilan kolaborasi siswa dengan nilai signifikansi $0,001 < 0,05$. Selain itu, terdapat pula pengaruh signifikan terhadap keterampilan komunikasi siswa dengan nilai signifikansi $0,001 < 0,05$. Rata-rata skor kolaborasi dan komunikasi siswa pada kelas eksperimen lebih tinggi dibandingkan kelas kontrol setelah diberikan perlakuan. Dengan demikian, dapat disimpulkan bahwa penerapan model pembelajaran *Group Investigation* berpengaruh signifikan dalam meningkatkan keterampilan kolaborasi dan komunikasi siswa pada materi fluida statis.

Kata kunci: *Group Investigation*, kolaborasi, komunikasi, fluida statis



ABSTRACT

Adelia Pratistha, NIM 4211121004, The Effect of the Group Investigation Cooperative Learning Model on Static Fluids Material on Collaboration and Communication among Students in Grade XI at SMA Negeri 1 Percut Sei Tuan

This study aims to determine the effect of the Cooperative Learning Model of Group Investigation type on students' collaboration and communication skills in the topic of static fluids at grade XI of SMA Negeri 1 Percut Sei Tuan. The study was motivated by the low level of students' collaboration and communication skills in physics learning, which tends to be teacher-centered. Therefore, it is necessary to implement a learning model that can actively involve students in the learning process, one of which is the Group Investigation model.

The research employed a quasi-experimental method with a nonequivalent control group design. The sample consisted of two classes: an experimental class taught using the Group Investigation learning model and a control class taught using Direct Instruction. The research instruments were observation sheets used to measure students' collaboration and communication skills. The collected data were analyzed through normality tests, homogeneity tests, and hypothesis testing using Ancova analysis.

The results of the study revealed that there was a significant effect of the Cooperative Learning Model of Group Investigation type on students' collaboration skills, with a significance value of $0.001 < 0.05$. In addition, there was also a significant effect on students' communication skills, with a significance value of $0.001 < 0.05$. The average scores of collaboration and communication in the experimental class were higher than those in the control class after the treatment was applied. Therefore, it can be concluded that the implementation of the Group Investigation learning model has a significant effect on improving students' collaboration and communication skills in Static Fluids.

Keywords: Group Investigation, collaboration, communication, static fluids