ABSTRAK

Tina Rakhmanita. 2024. **PENGARUH MODEL PEMBELAJARAN *REVIEW, OVERVIEW, PRESENTATION, EXERCISE, SUMMARY* (ROPES) BERBANTUAN *VASCAK PHYSICS ANIMATION* TERHADAP HASIL BELAJAR KOGNITIF SISWA PADA MATERI FLUIDA STATIS**

Penelitian ini dilatarbelakangi oleh rendahnya hasil belajar kognitif siswa, kurangnya inovasi penggunaan model pembelajaran fisika di kelas, dan keterbatasan ruang praktikum serta alat praktikum yang membuat pembelajaran kurang maksimal. Upaya untuk menyelesaikan masalah tersebut adalah dengan menggunakan model pembelajaran *Review, Overview, Presentation, Exercise, Summary (ROPES)* berbantuan *Vascak Physics Animation* dalam pembelajaran. Tujuan penelitian ini untuk mengetahui pengaruh model pembelajaran *ROPES* berbantuan *Vascak Physics Animation* terhadap hasil belajar kognitif siswa. Metode penelitian yang digunakan yaitu *Quasi Experiment* dengan desain penelitian *posttest only design*. Populasi penelitian yaitu seluruh kelas XI MIPA di SMAN 1 Sindangkasih Tahun Ajaran 2024/2025 sebanyak 6 kelas dengan jumlah 215 siswa. Tenik pengambilan sampel pada penelitian ini menggunakan *Cluster Random Sampling* dengan mengambil 2 kelas yaitu kelas XI MIPA 4 sebagai kelas eksperimen dan XI MIPA 5 sebagai kelas kontrol. Hasil belajar kognitif diukur menggunakan instrumen tes berbentuk pilihan ganda sebanyak 26 soal pada materi fluida statis. Hasil uji hipotesis menggunakan uji t pada taraf signifikasi ($\alpha = 0,05$) menunjukkan bahwa $t_{hitung} > t_{(0,05;70)}$ yang berarti H_0 ditolak dan H_a diterima, sehingga dapat disimpulkan pada taraf kepercayaan 95% terdapat pengaruh model pembelajaran *Review, Overview, Presentation, Exercise, Summary (ROPES)* berbantuan *Vascak Physics Animation* terhadap Hasil Belajar Kognitif Siswa pada materi Fluida Statis di kelas XI MIPA SMAN 1 Sindangkasih tahun ajaran 2024/2025. Hal ini dikarenakan model pembelajaran ROPES berbantuan *vascak physics animation* membantu siswa terlibat aktif dalam memperoleh pemahaman konsep materi melalui tahapan-tahapan yang saling berkaitan.

Kata kunci: Fluida Statis, Hasil Belajar Kognitif, Model Pembelajaran *ROPES*, *Vascak Physics Animation*

ABSTRACT

Tina Rakhmanita. 2024. *THE EFFECT OF THE REVIEW, OVERVIEW, PRESENTATION, EXERCISE, SUMMARY (ROPES) LEARNING MODEL ASSISTED BY VASCAK PHYSICS ANIMATION ON STUDENTS' COGNITIVE LEARNING OUTCOMES ON STATIC FLUID MATERIAL*

This research is motivated by the low cognitive learning outcomes of students, the lack of innovation in the use of physics learning models in the classroom, and the limited space for practical work and practical tools that make learning less than optimal. Efforts to solve these problems are to use the Review, Overview, Presentation, Exercise, Summary (ROPES) learning model assisted by Vascak Physics Animation in learning. The purpose of this study was to determine the effect of the ROPES learning model assisted by Vascak Physics Animation on students' cognitive learning outcomes. The research method used was Quasi Experiment with a posttest only design research design. The study population was all class XI MIPA at SMAN 1 Sindangkasih in the 2024/2025 Academic Year, totaling 6 classes with a total of 215 students. The sampling technique in this study used Cluster Random Sampling by taking 2 classes, namely class XI MIPA 4 as the experimental class and XI MIPA 5 as the control class. Cognitive learning outcomes were measured using a multiple-choice test instrument of 26 questions on the static fluid material. The results of the hypothesis test using the t-test at the significance level $(\alpha = 0,05)$ show that $t_{statistic} > t_{(0,05;70)}$ which means H_0 is rejected and H_a is accepted, so it can be concluded at a confidence level of 95% that there is an influence of the Review, Overview, Presentation, Exercise, Summary (ROPES) learning model assisted by Vascak Physics Animation on Students' Cognitive Learning Outcomes in Static Fluid material in class XI MIPA SMAN 1 Sindangkasih in the 2024/2025 academic year. This is because the ROPES learning model assisted by Vascak physics animation helps students to be actively involved in gaining an understanding of the concept of the material through interrelated stages.

Keywords: Static Fluid, Cognitive Learning Outcomes, ROPES Learning Model, Vascak Physics Animation.