

ABSTRAK

Jondry Andika Panjaitan, NIM 4213321005 (2025), Pengembangan Multimedia Pembelajaran Berbasis Model Problem Based Learning Berbantuan Canva pada Materi fluida Statis di SMA Negeri 1 Percut Sei Tuan.

Penelitian ini bertujuan untuk mengembangkan multimedia presentasi berbasis model *Problem Based Learning* (PBL) berbantuan Canva pada materi Fluida Statis di SMA Negeri 1 Percut Sei Tuan serta mengetahui kelayakan, kepraktisan, dan efektivitasnya dalam meningkatkan hasil belajar siswa. Jenis penelitian yang digunakan adalah penelitian dan pengembangan (*Research and Development*) dengan model 4D yang meliputi tahap *define, design, develop, dan disseminate*. Subjek penelitian ini adalah siswa kelas XI SMA Negeri 1 Percut Sei Tuan tahun ajaran 2025/2026. Hasil validasi ahli materi menunjukkan persentase kelayakan sebesar 99,03% dengan kategori sangat layak, sedangkan validasi ahli media memperoleh skor 77,3% dengan kategori layak. Uji kepraktisan diperoleh dari respon guru dengan skor 96,9% dan respon siswa dengan skor 89,3%, keduanya termasuk kategori sangat praktis. Uji efektivitas menunjukkan adanya peningkatan hasil belajar siswa, dengan nilai rata-rata pretest sebesar 49 meningkat menjadi 83 pada posttest. Nilai N-Gain yang diperoleh sebesar 69 berada pada kategori sedang mendekati tinggi. Berdasarkan hasil penelitian, dapat disimpulkan bahwa multimedia presentasi berbasis PBL berbantuan Canva pada materi Fluida Statis layak, praktis, dan efektif digunakan sebagai media pembelajaran fisika.

Kata Kunci: Multimedia Presentasi, *Problem Based Learning*, Canva, Fluida Statis.

ABSTRACT

Jondry Andika Panjaitan, NIM 4213321005 (2025), Development of Multimedia Learning Based on Problem Based Learning Model Assisted by Canva on Static Fluid Material at SMA Negeri 1 Percut Sei Tuan.

This study aims to develop a multimedia presentation based on the Problem Based Learning (PBL) model assisted by Canva on the topic of Static Fluids at SMA Negeri 1 Percut Sei Tuan and to determine its feasibility, practicality, and effectiveness in improving students' learning outcomes. The research employed a Research and Development (R&D) approach using the 4D model, which consists of the define, design, develop, and disseminate stages. The research subjects were Grade XI students of SMA Negeri 1 Percut Sei Tuan in the 2025/2026 academic year. The material expert validation results showed a feasibility percentage of 99.03%, categorized as very feasible, while the media expert validation obtained a score of 77.3%, categorized as feasible. The practicality test was obtained from teacher responses with a score of 96.9% and student responses with a score of 89.3%, both of which were classified as very practical. The effectiveness test indicated an improvement in students' learning outcomes, with the average pretest score increasing from 49 to 83 in the posttest. The N-Gain value obtained was 0.69, which falls into the medium category approaching high. Based on these results, it can be concluded that the PBL-based multimedia presentation assisted by Canva on the topic of Static Fluids is feasible, practical, and effective for use as a physics learning medium.

Keywords: *Multimedia Presentation, Problem Based Learning, Canva, Static Fluids.*