ABSTRAK

PUTRI RAMADANI. Pengembangan Media Pembelajaran IPA Berbasis Laboratorium Phet Kelas V MIN 5 Medan. Skripsi. Medan: Fakultas Ilmu Pendidikan Universitas Negeri Medan. 2026.

Tujuan dari penelitian ini untuk mengetahui validitas media pembelajaraan, mengetahui kepraktisan media pembelajaran dan mengetahui efektivitas media pembelajaran yang dikembangkan pada materi rangkaian listrik. Adapun jenis penelitian ini adalah penelitian dan pengembangan (*R&D)* dengan menggunakan model addie yang terdiri dari 5 tahapan yaitu *Analyze, Design, Development, Implementation,* dan *Evaluation.* Hasil validasi oleh ahli materi terhadap media pembelajaran PhET berbantuan canva diperoleh skor dengan persentase 80% dengan kriteria "Layak". Hasil validasi oleh ahli media memperoleh skor 86% dengan kriteria "Sangat Layak". Hasil penilaian media oleh guru diperoleh skor dengan presentase 81% dengan kriteria "Sangat Praktis". Sedangkan hasil respon siswa diperoleh skor 82% dengan kriteria "Sangat Praktis". Berdasarkan hasil implementasinya ditemukan adanya peningkatan hasil belajar peserta didik, dimana rata-rata hasil belajar pada *pre-test* adalah 69,50 sedangkan rata-rata pada *post-test* yaitu 93,00. Pembelajaran dengan menggunakan media PhET berbantuan canva di kelas V pada materi rangkaian listrik efektif digunakan. Hal ini terbukti dari rata-rata skor N-gain persen sebesar 80,56 dengan kategori "Sangat Efektif".

Kata Kunci: Media Pembelajaran, PhET, Canva, Rangkaian Lisrik, Penelitian dan Pengembangan, Model ADDIE.

ABSTRACT

PUTRI RAMADANI. Development of Science Learning Media Based on PhET Laboratory for Fifth Grade Students at MIN 5 Medan. Skripsi. Medan: Faculty of Education, State University of Medan. 2026.

The purpose of this study was to determine the validity, practicality, and effectiveness of the developed learning media on the topic of electrical circuits. This research employed a research and development (R&D) design using the ADDIE model, which consists of five stages: Analyze, Design, Development, Implementation, and Evaluation. The validation results by material experts on the PhET-based learning media assisted by Canva obtained a score percentage of 80% with the category "Feasible." The validation results by media experts obtained a score of 86% with the category "Highly Feasible." The media assessment by teachers resulted in a score percentage of 81% with the category "Very Practical," while student responses yielded a score of 82% with the category "Very Practical." Based on its implementation, an improvement in students' learning outcomes was found, where the average pre-test score was 69.50, while the average post-test score was 93.00. Learning using PhET media assisted by Canva in fifth-grade electrical circuit material was proven to be effective. This was evidenced by the average N-gain score of 80.56%, which falls into the "Highly Effective" category.

Keywords: Learning Media, PhET, Canva, Electrical Circuits, Research and Development, ADDIE Model.