

## ABSTRAK

Tujuan dari penelitian ini adalah Untuk mengetahui desain alat peraga rangkaian listrik rumah yang telah dikembangkan, mengetahui kelayakan alat peraga rangkaian listrik rumah yang telah dibuat, mengetahui bagaimana respon pengguna terhadap alat peraga rangkaian listrik rumah. Produk yang dikembangkan berupa alat peraga rangkaian listrik rumah yang digunakan untuk memudahkan mahasiswa dalam memahami konsep rangkaian listrik rumah dan menambah keterampilan mahasiswa dalam merangkai listrik. Penelitian dilakukan di laboratorium Pendidikan Fisika Universitas Muhammadiyah Metro. Metode yang digunakan dalam penelitian ini yaitu metode R&D (*Research and Development*) dan menggunakan model ADDIE (*Analyze, Design, Development, Implementation, Evaluation*). Instrumen pengumpulan data menggunakan lembar validasi ahli materi, validasi ahli media dan respon pengguna. Hasil analisis data validasi ahli media dan validasi ahli materi alat peraga yang dikembangkan mendapatkan persentase 80% dan Penilaian respon pengguna mendapatkan persentase 87%. Ada dua desain yang dikembangkan yaitu desain alat peraga rangkaian listrik rumah dan modul penggunaan alat peraga. Berdasarkan data validasi ahli media dan ahli materi alat peraga yang dikembangkan mendapatkan persentase 80% dengan kriteria layak. Berdasarkan penilaian respon pengguna mendapatkan presentase 87% dengan kriteria sangat layak.

Kata Kunci : Pengembangan; alat peraga; rangkaian listrik

## ABSTRACT

The purpose of this research was to find out the design of home electrical circuit trainers that have been developed, to find out the feasibility of home electric circuit trainers that have been made, to find out how the user responds to home electric circuit trainers. The product developed was in the form of a home electrical circuit teaching aid which was used to facilitate students in understanding the concept of home electrical circuits and to increase students' skills in electrical stringing. The research was conducted in the Physics Education laboratory at Muhammadiyah University of Metro. The method used in this research was the R&D (Research and Development) method and the ADDIE model (Analyze, Design, Development, Implementation, Evaluation). The data collection instrument used material expert validation sheets, media expert validation and user responses. The results of data analysis validation of media experts and expert validation of teaching aids developed got a percentage of 80% and user response ratings got a percentage of 87%. There were two designs developed, namely the design of the home electrical circuit teaching aids and the module for the use of props. Based on validation data from media experts and teaching aids material experts that were developed, they obtained a percentage of 80% with feasible criteria. Based on the assessment of user responses, it got a percentage of 87% with very decent criteria.

Keywords: Development; Teaching aids; electrical circuits