

# **PENGEMBANGAN MULTIMEDIA PEMBELAJARAN INTERAKTIF MATA PELAJARAN INSTALASI TENAGA LISTRIK**

Oleh :  
Ilyas Rif'at Pradana  
NIM. 17501247002

## **ABSTRAK**

Tujuan penelitian ini adalah mengembangkan media dan mengetahui tingkat kelayakan multimedia pembelajaran interaktif instalasi tenaga listrik sebagai media pembelajaran pada mata pelajaran Instalasi Tenaga Listrik di SMK Negeri 1 Pundong. Penelitian pengembangan ini menerapkan langkah-langkah model ADDIE. Metode pengumpulan data menggunakan angket yang melibatkan dua ahli media, dua ahli materi serta pengguna. Teknik analisis data yang digunakan adalah analisis deskriptif. Produk akhir penelitian pengembangan yang dihasilkan berupa multimedia pembelajaran interaktif instalasi listrik yang sesuai pada mata pelajaran instalasi tenaga listrik meliputi unsur materi pokok bahasan instalasi tenaga listrik, sistem pembumian dan penangkal petir, latihan soal evaluasi untuk mengukur tingkat pemahaman pengguna, objek multimedia yang mendukung penyajian materi, tata letak (*layout*) yang konsisten, tampilan visual yang menarik, komposisi warna yang serasi, dan kemudahan pengoperasian program. Hasil validasi ahli media menunjukkan skor sebesar 73,5 (79,9%) yang termasuk dalam kategori “Layak”. Berdasarkan validasi ahli materi dikategorikan “Layak” dengan skor sebesar 82 (78,8%). Menurut analisis data uji coba siswa kelompok kecil didapatkan skor sebesar 65,3 (77,8%) yang dikategorikan “Sangat Baik”, dan pada uji coba kelompok besar mendapatkan skor sebesar 68,8 (81,9%) sehingga dapat dikategorikan “Sangat Baik”.

Kata Kunci: Multimedia pembelajaran interaktif, teknik ketenagalistrikan, ADDIE

# **DEVELOPMENT OF INTERACTIVE LEARNING MULTIMEDIA FOR SUBJECT MATTER OF ELECTRICAL POWER INSTALLATION**

By :

*Ilyas Rif'at Pradana*

NIM. 17501247002

## **ABSTRACT**

*The purposes of this study are to develop a media and find out the feasibility level of interactive learning multimedia of electric power installations as a learning medium in the subject of Electric Power Installation at Vocational High School 1 Pundong. This development research applies ADDIE model. The method of data collection uses a questionnaire involving two media experts, two material experts and users. The data analysis technique used is descriptive analysis. The final product of development research produced in the form of interactive learning multimedia which is appropriate for electrical power installation subject including elements of the subject matter of electric power installation, grounding and lightning protection systems, practice questions to measure the level of user understanding, multimedia objects that support the presentation of material, consistent layout, attractive visual appearance, harmonious color composition, and easiness of program operation. The results of the media expert validation showed a score of 73.5 (79.9%) which is categorized as "Feasible" category. Based on the validation of material experts, it is categorized as "Feasible" with a score of 82 (78.8%). According to the data analysis of the trials of small groups students, it obtained a score of 65.3 (77.8%) which is categorized as "Very Good, and the trials of the large group got a score of 68.8 (81.9%) so that it is categorized as "Very Good".*

**Keywords:** Interactive learning multimedia, electricity engineering, ADDIE