

PENGEMBANGAN MEDIA PEMBELAJARAN MOBILE LEARNING BERBASIS ANDROID PADA MATA KULIAH RANGKAIAN LISTRIK DI PROGRAM STUDI PENDIDIKAN TEKNIK ELEKTRO

Oleh

Lisa Rahayu, NIM 1915061024

Program Studi Pendidikan Teknik Elektro

ABSTRAK

Penelitian ini bertujuan untuk membuat suatu media pembelajaran berupa aplikasi pembelajaran *Mobile Learning Berbasis Android* Pada Mata Kuliah Rangkaian Listrik di program studi S1 Pendidikan Teknik Elektro Undiksha. Untuk mengetahui kelayakan serta mengetahui respon mahasiswa terhadap media pembelajaran, penelitian ini menggunakan metode penelitian dan pengembangan R&D (*reasearch and development*). Penelitian ini menggunakan metode instrumen pengambilan data angket/kuesioner yang dinilai oleh ahli isi, ahli media, dan kepada mahasiswa. Hasil dari penelitian memperoleh hasil uji validasi ahli isi sebesar 95,45% dengan kualifikasi sangat layak, uji validasi ahli media sebesar 94,23% dengan kualifikasi sangat layak, uji coba kelompok kecil dari 5 orang responden mendapatkan hasil kualifikasi sangat layak, dan uji coba kelompok besar 16 orang responden dengan persentase sebesar 94,2% mendapatkan hasil dengan klasifikasi sangat baik dan 1 orang responden mendapatkan hasil klasifikasi baik dengan presentase 5,8%. Media pembelajaran berupa aplikasi pembelajaran *Mobile Learning Berbasis Android* Pada Mata Kuliah Rangkaian Listrik di Program Studi S1 Pendidikan Teknik Elektro Undiksha layak digunakan dalam proses pembelajaran mata kuliah Rangkaian Listrik di Program Studi S1 Pendidikan Teknik Elektro Undiksha.

Kata Kunci : *Media pembelajaran, Aplikasi Pembelajaran, Android, Rangkaian Listrik, Research and Development.*

DEVELOPMENT OF ANDROID-BASED MOBILE LEARNING MEDIA IN THE ELECTRICAL CIRCUITS COURSE IN THE ELECTRICAL ENGINEERING EDUCATION PROGRAM

By

Lisa Rahayu, NIM 1915061024

Study Program Electrical Engineering Education

ABSTRACT

This research aims to create a learning media in the form of an Android-based Mobile Learning learning application for the Electrical Circuits Course in the Undiksha Electrical Engineering Education Bachelor's study program. To determine the feasibility and determine students' responses to learning media, this research uses the R&D research and development method (research and development). This research uses a questionnaire/questionnaire data collection instrument method which is assessed by content experts, media experts, and students. The results of the research obtained content expert validation test results of 95.45% with very decent qualifications, media expert validation tests of 94.23% with very decent qualifications, small group trials of 5 respondents obtained very decent qualification results, and trial a small group of 5 respondents got very decent qualification results, and a large group trial of 16 respondents with a percentage of 94.2% got results with very good classification and 1 respondent got good classification results with a percentage of 5.8%. The learning media in the form of an Android-based Mobile Learning learning application in the Electrical Circuits Course in the Undiksha Electrical Engineering Education Undergraduate Study Program is suitable for use in the learning process for the Electrical Circuits course in the Undiksha Electrical Engineering Education Undergraduate Study Program.

Keywords: *Learning media, Learning Applications, Android, Electrical Circuits, Research and Development.*