

PENGEMBANGAN MEDIA PEMBELAJARAN RANGKAIAN SISTEM KONTROL BERGANTIAN 4 MOTOR SECARA OTOMATIS

Oleh

SYEIK MAULANA SIWA SOPALAUW

NIM 1615061034

Program Studi S1 Pendidikan Teknik Elektro

ABSTRAK

Penelitian ini bertujuan membuat Media Pembelajaran Rangkaian Sistem Kontrol Bergantian 4 Motor Secara Otomatis yang dapat digunakan untuk membantu proses pembelajaran, untuk mengetahui kelayakan media pembelajaran dan mengetahui respons peserta didik pada mata kuliah PHB (Panel Hubung Bagi) di Program Studi Pendidikan Teknik Elektro. Penelitian ini, termasuk jenis penelitian R & D (*Research and Development*). Penelitian menggunakan kuesioner sebagai instrumen pengumpulan data oleh ahli isi (materi), ahli media dan peserta didik. Dari hasil penelitian diperoleh: hasil uji ahli isi diperoleh nilai persentase sebesar 96,66% dengan kualifikasi sangat layak, hasil uji ahli media diperoleh persentase sebesar 83,63% dengan kualifikasi sangat layak, rentang skor untuk 5 responden pada uji kelompok kecil semua termasuk klasifikasi sangat baik dan rentang skor untuk 15 responden pada uji kelompok besar semua termasuk klasifikasi sangat baik, Media Pembelajaran Sistem Kontrol Bergantian 4 Motor Secara Otomatis layak digunakan dalam proses pembelajaran pada mata kuliah PHB (Panel Hubung Bagi) di Program Studi Pendidikan Teknik Elektro UNDIKSHA..

Kata Kunci : Media Pembelajaran, Rangkain Sistem Kontrol Bergantian Secara Otomatis, Panal Hubung Bagi.

Abstract

This research aimed at the development of learning media of automatic control system circuit with alternating four motors. The media development was expected to assist the learning process, to find out the media eligibility, as well as to find out the response from the students of Electrical engineering education in the Distribution Panel course. This R & D research used three different questionnaires, each to collect the data from the content expert, the media expert, and the students. The feasibility test from the content expert resulted in 96.67% which was qualified as very good. The result of the feasibility test conducted by the media expert was also qualified as very good, with the percentage of 83.63%. Furthermore, the range of scores for 5 respondents in the small group test all included very good classification and the range of scores for 15 respondents in the large group test all included very good classification. Therefore, the media developed in this research was valid to be used at the Distribution Panels Course in the Electrical Engineering Education of Universitas Pendidikan Ganesha.

Keywords: *Learning Media, the development of learning media of automatic control system circuit with alternating four motor, Distribution Panels Course.*