

ABSTRAK

Mantaris Owi Sukriansyah Siregar, Nim 5173331022 (2024), Pengembangan Media Pembelajaran Instalasi Penerangan Listrik Menggunakan Ispring Suite Berbasis Android Di Smks Dwiwarna Medan. Skripsi. Jurusan Pendidikan Teknik Elektro. Program Studi Pendidikan Teknik Elektro. Fakultas Teknik Universitas Negeri Medan. 2024.

Tujuan penelitian ini adalah untuk: (1) Mengembangkan media pembelajaran menggunakan *Ispring Suite* berbasis *android* untuk mempermudah mata pelajaran instalasi penerangan listrik untuk kelas XI TITL di SMK Dwiwarna Medan. (2) Mengetahui apakah media pembelajaran menggunakan *Ispring Suite* berbasis *android* layak dikembangkan untuk mempermudah mata pelajaran instalasi penerangan listrik untuk kelas XI TITL di SMK Dwiwarna Medan.

Penelitian ini merupakan penelitian pengembangan (*Research and Development*). Model pengembangan yang digunakan adalah model pengembangan ADDIE yang dibatasi hanya: (1) *analysis*, (2) *design*, dan (3) *development*. Penelitian ini dilakukan di SMKS Dwiwarna Medan dengan responden penelitian siswa kelas XI Program Keahlian Teknik Instalasi Tenaga Listrik (TITL). Instrumen yang digunakan berupa angket. Angket digunakan untuk menguji kelayakan media pembelajaran melalui validasi dua ahli materi, dan satu ahli media. Teknik analisis data dilakukan dengan hitungan statistik deskriptif.

Adapun hasil penelitian adalah: (1) Produk media pembelajaran pada mata Pelajaran Instalasi Penerangan Listrik pada kompetensi dasar menentukan komponen instalasi penerangan listrik pada bangunan sederhana. (2) Kelayakan produk berdasarkan validasi ahli materi diperoleh skor sebesar 4,55 dengan kategori “**sangat layak**”. Berdasarkan validasi ahli media diperoleh skor sebesar 4,64 dengan kategori “**sangat layak**”. Penilaian siswa melalui angket pengguna (*user*) mendapatkan skor sebesar 4,33 dengan kategori “**sangat layak**”. Maka dapat disimpulkan bahwa media pembelajaran Instalasi penerangan Listrik menggunakan *ispring suite* berbasis *android* sangat layak digunakan sebagai media pembelajaran bagi siswa kelas XI Teknik Instalasi Tenaga Listrik di SMKS Dwiwarna Medan.

Kata Kunci: Pengembangan, Media Pembelajaran, *Ispring Suite*, Instalasi Penerangan Listrik

ABSTRACT

Mantaris Owi Sukriansyah Siregar, Nim 5173331022 (2024), *Development of Learning Media for Electrical Lighting Installation Using Android-Based Ispring Suite at Dwiwarna Vocational School, Medan, Thesis. Department of Electrical Engineering Education. Electrical Engineering Education Study Program. Medan State University Faculty of Engineering. 2024.*

The aim of this research is to: (1) Developing learning media using the Android-based Ispring Suite to simplify the subject of electrical lighting installation for class XI TITL at SMK Dwiwarna Medan. (2) To find out whether learning media using the Android-based Ispring Suite is worth developing to simplify the subject of electrical lighting installation for class XI TITL at SMK Dwiwarna Medan.

This research is development research (Research and Development). The development model used is the ADDIE development model which is limited to: (1) analysis, (2) design, and (3) development. This research was conducted at SMKS Dwiwarna Medan with research respondents were class XI students of the Electrical Power Installation Engineering Skills Program (TITL). The instrument used is a questionnaire. The questionnaire was used to test the feasibility of learning media through validation by two material experts and one media expert. The data analysis technique was carried out using descriptive statistics.

The results of the research are: (1) Learning media products on The Electrical Lighting Installation subject has the basic competency of determining the components of electrical lighting installations in simple buildings. (2) Appropriateness Based on material expert validation, the product obtained a score of 4.55 with the "very feasible" category. Based on media expert validation, a score of 4.64 was obtained in the "very feasible" category. Student assessment via a user questionnaire received a score of 4.33 in the "very appropriate" category. So it can be concluded that the learning media for Electrical Lighting Installation using the Android-based ISPRING Suite is very suitable to be used as a learning media for class XI students in Electrical Power Installation Engineering at SMKS Dwiwarna Medan.

Keywords: *Development, Learning Media, Ispring Suite, Electrical Lighting Installation*