ABSTRAK

Novi Emita Pakpahan. NIM. 5121131007. Rancang Bangun Media Pembelajaran Berbasis Multimedia Interaktif Pada Mata Pelajaran Dasar dan Pengukuran Listrik Kelas X TIPTL SMK Negeri 1 Lubuk Pakam. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2016.

Tujuan penelitian ini adalah untuk: (1) membangun multimedia pembelajaran interaktif pada mata pelajaran Dasar dan Pengukuran Listrik di SMK Negeri 1 Lubuk Pakam (2) mengetahui kelayakan produk multimedia pembelajaran interaktif Dasar dan Pengukuran Listrik (3) mengetahui respon penilaian siswa terhadap multimedia pembelajaran interaktif Dasar dan Pengukuran Listrik. Media pembelajaran berbasis multimedia interaktif dibangun menggunakan beberapa software yang terdiri dari *adobe flash CS6, Corel Video Studio Pro6*, dan AMR to MP3 *Converter*.

Penelitian ini merupakan penelitian pengembangan (*Research and Development*). Model pengembangan yang digunakan adalah model desain intruktional ADDIE yang terdiri atas: *(1) analysis, (2) design, (3) development & implementation, dan (4) evaluation*. Penelitian ini dilakukan di Negeri 1 Lubuk Pakam dengan subyek penelitian siswa kelas X program keahlian Teknik Instalasi Pemanfaatan Tenaga Listrik (TIPTL). Tahap pengujian kelayakan produk dilakukan penilaian oleh dua ahli materi dan dua ahli media. Pada tahap evaluasi produk dilakukan penilaian oleh siswa sebagai pengguna. Teknik pengumpulan data menggunakan instrumen angket. Teknik analisis data digunakan dengan analisis deskriptif.

Adapun hasil penelitian adalah: (1) produk multimedia pembelajaran interaktif pada mata pelajaran Dasar dan Pengukuran Listrik pada kompetensi dasar mendeskripsikan arus listrik dan elektron dan mendeskripsikan bahan-bahan listrik (2) kelayakan produk berdasarkan validasi ahli materi diperoleh rerata skor sebesar 4,82 yang termasuk dalam interpretasi **"sangat layak"**, sedangkan berdasarkan validasi ahli media diperoleh rerata skor sebesar 4,65 yang termasuk dalam interpretasi **"sangat layak"**. (3) penilaian respon siswa mendapatkan rerata skor sebesar 4,43 dan termasuk dalam interpretasi **"sangat layak"**.

Kata kunci: multimedia interaktif

ABSTRACT

Novi Emita Pakpahan. NIM. 5121131007. The Design Of Interactive Multimedia- Based Learning Media In Basic And Measuring of Electric Lesson at X TIPTL Class SMK N 1 Lubuk Pakam. Thesis. Faculty of Engineering State University Of Medan. 2016.

The purpose of this study was to: (1) build a interactive multimedia learning In Basic And Measuring of Electric Lesson at SMK Negeri 1 Lubuk Pakam (2) determine the advisability of the product interactive multimedia learning In Basic And Measuring of Electric Lesson (3) study the response of student assessment to interactive multimedia learning in basic and measuring of electric lesson. Interactive multimedia-based learning is built using some software that consists of Adobe Flash CS6, Corel Video Studio Pro6, and AMR to MP3 Converter.

This research is a development (Research and Development). The development model used is intructional ADDIE design model consist of: (1) analysis, (2) design, (3) development, (4) implementation, and (5) evaluation. This research was did in the SMK N 1 Lubuk Pakam with research subject are students of X class is Installation Engineering Utilization of Electricity (TIPTL). The testing phase of product advisability is did by two material experts and two media experts. At the phase of product evaluation is did by students as user. The technique of collecting data using questionnaires. Data analysis techniques used by the descriptive analysis.

The research results are: (1) the product of interactive multimedia in basic and measuring of electric lesson on core competencies describe the electric current and the electrons and describe electrical materials (2) the feasibility of the product according validation of the material expert obtained mean score of 4.82 that is included in the interpretation of **"very good"**, while according validation of the media expert obtained a mean score of 4.65 that is included in the interpretation of **"very good".** (3) the assessment of the students' responses obtained mean score of 4.43, included in the interpretation of **"very good".**

Keywords: interactive multimedia