ABSTRAK

Gadis Siti Mutiarahmah, Pengembangan Media Pembelajaran Interaktif untuk Kompetensi Saluran Transmisi dan Antena Gelombang Radio pada Mata Pelajaran Penerapan Sistem Radio Dan Televisi. Skripsi. Jakarta. Program Studi Pendidikan Teknik Elektronika, Fakultas Teknik, Universitas Negeri Jakarta, 2019. Dosen Pembimbing : Dr. Ir. Rusmono, M.Pd. dan Drs. Mufti Ma'sum, M.Pd.

Penelitian ini bertujuan untuk mengembangkan media pembelajaran interaktif untuk kompetensi Saluran Transmisi dan Antena Gelombang Radio di SMK khususnya program keahlian Teknik Audio Video, serta untuk mengetahui tingkat kelayakan berdasarkan penilaian ahli materi, ahli media, dan pengguna (peserta didik). Media ini berisi tentang materi Saluran Transmisi dan Antena Gelombang Radio yang dilengkapi ilustrasi gambar, animasi, narasi, serta video pembelajaran. Penelitian ini menggunakan metode pengembangan *Research and Development* (R&D) dengan model pengembangan produk ASSURE. Pembuatan media pembelajaran interaktif menggunakan software Adobe Flash Professional CS 3, dan tahap validasi menggunakan kuesioner atau angket. Data hasil penelitian dianalisis dengan menggunakan teknik deskriptif kuantitatif. Uji coba yang terlaksana ada dua tahap yaitu uji coba perorangan (*one to one by learner*) dan uji coba kelompok kecil *(small group*), dan untuk uji coba lapangan (*field trial*) belum terlaksana karena keterbatasan waktu yang ada. Hasil penelitian menunjukan bahwa tingkat kelayakan media pembelajaran interaktif untuk kompetensi Saluran Transmisi dan Antena Gelombang Radio berdasarkan: (1) Ahli materi diperoleh presentase 92% yang termasuk kategori Sangat Layak; (2) Ahli media diperoleh presentase 93% yang termasuk kategori Sangat Layak; (3) Peserta didik diperoleh presentase 89% yang termasuk kategori Layak. Sehingga dapat disimpulkan bahwa Media Media Pembelajaran Interaktif untuk Kompetensi Saluran Transmisi dan Antena Gelombang Radio pada Mata Pelajaran Penerapan Sistem Radio Dan Televisi Sangat Layak digunakan oleh peserta didik untuk kegiatan pembelajaran.

Kata-kata kunci: media pembelajaran, interaktif, saluran transmisi, antena gelombang radio

ABSTRACT

Gadis Siti Mutiarahmah, Development of Interactive Learning Media for Competence of Transmission Line and Radio Wave Antennas in the Application of Radio and Television Systems. Essay. Jakarta. Electrical Engineering Education Study Program, Faculty of Engineering, Jakarta State University, 2019. Supervisor: Dr. Ir. Rusmono, M. Pd. and Drs. Mufti Ma'sum, M.Pd.

This research aims to develop interactive learning media for the competence of transmission line and radio wave antennas in vocational schools, especially Audio Video Engineering expertise programs, and to determine the feasibility level based on the assessment of material experts, media experts, and students. This media contains material about Transmission Line and Radio Wave Antennas that are equipped with illustrations, animations, narratives, and learning videos. This research uses the Research and Development (R&D) development method with the ASSURE product development model. Making interactive learning media using Adobe Flash Professional CS 3 software, and the validation stage uses a questionnaire or questionnaire. The research the Research and Development (R&D) development method with the ASSURE product development model. Making interactive learning media using Adobe Flash Professional CS 3 software, and the validation stage uses a questionnaire or questionnaire. The research data were analyzed using quantitative descriptive techniques. There are two stages of trials, namely one-to-one by students and small groups, and for field trials have not been done because of the limited time available. The results showed that the level of feasibility of interactive learning media for the Transmission Line and Radio Wave Antennas based on: (1) Material experts obtained a percentage of 92% which was included in the Very Eligible category; (2) media experts get a percentage of 93% which is categorized as Very Eligible; (3) Students get a percentage of 89% which is categorized as Eligible. So it can be concluded that the Interactive Learning Media Media for the Competence of Transmission Lines and Radio Wave Antennas in the Subjects of Radio and Television System Applications is Very Suitable for use by students in learning activities.

Keywords : learning media, interactive, transmission line, radio wave antenna