

ABSTRAK

Dani Betran Hutasoit : Pengembangan E-Modul Dengan Menggunakan Canva Pada Elemen Instalasi Penerangan Listrik Kelas XI TITL 1 Fasa Di Smk Negeri 14 Medan. Skripsi. Fakultas Teknik Universitas Negeri Medan, 2025.

Penelitian ini bertujuan untuk mengetahui 1) kelayakan E-Modul Instalasi Penerangan Listrik pada materi instalasi penerangan 1 fasa. 2) efektifitas E-Modul Instalasi Penerangan Listrik pada materi instalasi penerangan 1 fasa terhadap perkembangan hasil belajar siswa. Penelitian ini dilaksanakan di SMK Negeri 14 Medan dengan subjek penelitiannya yaitu siswa kelas XI-TITL 1 Jurusan Teknik Instalasi Tenaga Listrik. Metode yang digunakan pada penelitian ini adalah *research and development (R&D)* dengan model pengembangan ADDIE yang terdiri dari *Analysis (Analisis)*, *Design (Desain)*, *Development (Pengembangan)*, *Implementation (Implementasi)*, dan *Evaluation (Evaluasi)*. Hasil penelitian ini adalah: 1) Berdasarkan penilaian yang dilakukan oleh validator dosen didapat hasil bahwa penilaian oleh ahli media mendapatkan kategori “sangat layak” dengan hasil rata-rata keseluruhan penilaian yang telah diberikan yaitu 92%. Penilaian ahli materi mendapatkan kategori “Sangat layak” dengan hasil rata-rata keseluruhan penilaian yang telah diberikan yaitu 91,2%. Penilaian juga dilakukan oleh validator guru dan didapat hasil bahwa penilaian oleh ahli media mendapatkan kategori “Layak” dengan hasil rata-rata keseluruhan penilaian yang telah diberikan yaitu 74%. Penilaian ahli materi mendapatkan kategori “Sangat layak” dengan hasil rata-rata keseluruhan penilaian yang telah diberikan yaitu 88%. Respon siswa terhadap media pembelajaran yang dikembangkan dapat diterima oleh siswa dengan kategori “akseptansi sangat tinggi” atau dapat diartikan bahwa penerimaan sangat tinggi dengan nilai 93,3%. 2) dan berdasarkan Hasil uji coba media terhadap 34 siswa kelas XI TITL 1 Teknik Instalasi Tenaga Listrik diperoleh hasil uji efektifitas N-Gain Sebesar 0.76 dengan kategori tingkat keefektifan “Tinggi”. Hasil penelitian ini dapat disimpulkan bahwa E-Modul Dengan Menggunakan Canva Pada Materi Instalasi Penerangan Listrik 1 Fasa merupakan media pembelajaran yang layak dan efektif digunakan.

Kata kunci: E-Modul, Instalasi Penerangan Listrik, Kelayakan, Keefektifan.

ABSTRACT

Dani Betran Hutasoit: *Development of Interactive E-Modules Using Canva on Electrical Lighting Installation Elements of Class XI ITL 1 Phase at Smk Negeri 14 Medan*. Thesis. Faculty of Engineering, State University of Medan, 2025.

This research aims to determine 1) the feasibility of E-module of Electrical Lighting Installation on 1 phase lighting installation material. 2) the effectiveness of the E-module of Electrical Lighting Installation on 1-phase lighting installation material on the development of student learning outcomes. This research was conducted at SMK Negeri 14 Medan with the research subjects were students of class XI-TITL 1 Department of Electrical Power Installation Engineering. The method used in this research is research and development (R&D) with the ADDIE development model which consists of *Analysis, Design, Development, Implementation, and Evaluation*. The results of this study are: 1) Based on the assessment conducted by the lecturer validator, the results show that the assessment by the media expert gets the “very feasible” category with the overall average result of the assessment that has been given is 92%. The material expert assessment gets the category “Very feasible” with the overall average result of the assessment that has been given is 91.2%. In comparison, the assessment was also carried out by teacher validators and it was found that the assessment by media experts received the “Feasible” category with the overall average result of the assessment that had been given, namely 74%. The material expert assessment gets the “Very feasible” category with the overall average result of the assessment that has been given is 88%. Student responses to the learning media developed can be accepted by students with the category “very high acceptance” or it can be interpreted that acceptance is very high with a value of 93.3%. 2) And based on the results of media trials on 34 students of class XI TITL 1 Electrical Power Installation Engineering obtained the results of the N-Gain effectiveness test of 0.76 with the category of “High” effectiveness level. The results of this research can be concluded that the E-Module Using Canva on 1 Phase Electrical Lighting Installation Material is a learning media that is feasible and effective to use.

Keywords: E-module, Electrical Lighting Installation, Feasibility, Effectiveness.