

ABSTRAK

Niken Sulastris Sitakar: Pengembangan E-Modul Pembelajaran Teknik Instalasi Tenaga Listrik (TITL) Siswa Kelas XI Jurusan Teknik Instalasi Tenaga Listrik (TITL) Di Smk Negeri 5 Medan. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2025.

Penelitian ini bertujuan untuk: 1) merancang pengembangan *E-modul* Pembelajaran Teknik Instalasi Tenaga Listrik (TITL) Kelas XI di SMK Negeri 5 Medan. 2) kelayakan *E-modul* Pembelajaran Teknik Instalasi Tenaga Listrik (TITL). 3) keefektifan *E-modul* Pembelajaran Teknik Instalasi Tenaga Listrik (TITL). Penelitian ini dilakukan di SMK Negeri 5 Medan dengan subyek penelitian yaitu siswa kelas XI Teknik Instalasi Tenaga Listrik (TITL) berjumlah 30 siswa. Metode penelitian yang digunakan pada penelitian ini ialah *research & development* (R&D) dengan model pengembangan ADDIE. Hasil dari penelitian ini adalah: 1) Hasil dari pengembangan media ini berupa link, dengan media pembelajaran dilengkapi dengan capaian pembelajaran, materi, dan tes sumatif. 2) Berdasarkan penilaian yang dilaksanakan validator didapat hasil penilaian oleh ahli materi mendapat Kategori “Sangat Layak” diperoleh berdasarkan rata-rata keseluruhan penilaian sebesar 3,5. Penilaian dari ahli media juga menunjukkan kategori “Sangat Layak” dengan rata-rata nilai yang sama, yaitu 3,5. 3) Hasil belajar siswa terhadap pengembangan media, skor N-Gain mencapai nilai 0,71 atau 71% termasuk kedalam kategori keefektifannya “Tinggi”. Maka disimpulkan bahwa E-Modul Pembelajaran Teknik Instalasi Tenaga Listrik (TITL) Siswa Kelas XI di Pelajaran Instalasi Penerangan Listrik 1 Fasa merupakan media pembelajaran yang layak dan efektif digunakan.

Kata kunci: E-modul, Teknik Instalasi Tenaga Listrik, Kelayakan, Keefektifan

ABSTRACT

Niken Sulastri Sitakar: *Development of E-Module for Learning Electrical Power Installation Engineering (TITL) for Grade XI Students of Electrical Power Installation Engineering Department at State Vocational High School 5 Medan. Thesis. Faculty of Engineering, State University of Medan. 2025.*

This study aims to: 1) designing the development of E-module for Learning Electrical Power Installation Engineering (TITL) for Grade XI at State Vocational High School 5 Medan. 2) the feasibility of E-module for Learning Electrical Power Installation Engineering (TITL). 3) the effectiveness of E-module for Learning Electrical Power Installation Engineering (TITL). This research was conducted at State Vocational High School 5 Medan with the research subjects being 30 grade XI students of Electrical Power Installation Engineering (TITL). The research method used in this study is research & development (R&D) with the ADDIE. The results of this study are: 1) The results of the development of this media are in the form of links, with learning media equipped with learning achievements, materials, and summative tests. 2) Based on the assessment carried out by the validators, the results showed that the assessment by material experts was categorized as "Very Eligible" with an average value of the overall assessment given of 3.5. Then the assessment by media experts was categorized as "Very Eligible" with an average value of the overall assessment given of 3.5. 3) Student learning outcomes for media development, the N-Gain score reached a value of 0.71 or 71%, included in the category of "High" effectiveness. It is concluded that the E-Module for Learning Electrical Power Installation Techniques (TITL) for Grade XI Students in the 1-Phase Electrical Lighting Installation Subject is a learning medium that is feasible and effective to use.

Keywords: E-module, Electrical Power Installation Techniques, Eligibility, Effectiveness