ABSTRAK

Putri Adzania: *Pengembangan E-modul interaktif Berbasis Google sites Pada Materi Instalasi Tenaga Listrik 1 Fasa di SMKS Sinar Husni 2 TR*. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2024.

Penelitian ini bertujuan untuk mengetahui 1) Perancangan pengembangan e-modul interaktif berbasis *google sites pada* materi Instalasi Tenaga Listrik 1 Fasa di SMKS Sinar Husni 2 TR. 2) Kelayakan e-modul interaktif berbasis *google sites pada* materi Instalasi Tenaga Listrik 1 Fasa *3)* keefektifan e-modul interaktif berbasis *google sites pada* materi Instalasi Tenaga Listrik 1 Fasa. Penelitian ini dilaksanakan di SMKS Sinar Husni 2 TR Labuhan Deli dengan subjek penelitiannya yaitu siswa kelas XI Teknik Instalasi Tenaga Listrik. Metode yang digunakan pada penelitian ini adalah research & development (R&D) dengan model pengembangan 4D yang terdiri dari *define* (pendefinisian), *design* (perancangan), *development* (pengembangan), *disseminate* (penyebaran). Hasil dari penelitian ini adalah: 1) Hasil dari pengembangan media ini ialah berupa link, yang media pembelajarannya dilengkapi oleh materi, video, gambar, absensi, latihan soal dan profil pengembang. 2) Berdasarkan penilaian yang dilakukan oleh para validator didapat hasil bahwa penilaian oleh ahli media mendapatkan kategori "sangat layak" dengan hasil rata-rata keseluruhan penilaian yang telah diberikan yaitu 4.52. Kemudian, pada penilaian ahli materi mendapatkkan kategori "Sangat layak" dengan hasil rata-rata keseluruhan penilaian yang telah diberikan yaitu 4.56. 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 4.74. Dan berdasarkan hasil uji coba media terhadap 20 siswa kelas XI Teknik Instalasi Tenaga Listrik diperoleh hasil uji efektifitas *N-Gain* Sebesar 0.78 dengan kategori tingkat keefektifan "Tinggi". Maka disimpulkan bahwa E-Modul Interaktif Berbasis *Google Sites* Pada Materi Instalasi Tenaga Listrik 1 Fasa merupakan media pembelajaran yang layak dan efektif digunakan.

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

ABSTRACT

Putri Adzania: *Development of interactive E-modules based on Google sites on 1 Phase Electrical Power Installation Material at SMKS Sinar Husni 2 TR. Thesis. Faculty of Engineering, State University of Medan. 2024.*

This research aims to determine 1) The design of interactive e-module development based on google sites on 1 Phase Electrical Power Installation material at SMKS Sinar Husni 2 TR. 2) Feasibility of interactive e-modules based on google sites on 1 Phase Electrical Power Installation material 3) the effectiveness of interactive e-modules based on google sites on 1 Phase Electrical Power Installation material. This research was conducted at SMKS Sinar Husni 2 TR Labuhan Deli with the research subject being class XI students of Electrical Power Installation Engineering. The method used in this research is research & development (R&D) with a 4D development model consisting of define, design, develop, disseminate. The results of this study are: 1) The results of this media development are in the form of links, which learning media are equipped with material, videos, images, attendance, practice questions and developer profiles. 2) Based on the assessment conducted by the validators, 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 4.52. Then, the material expert assessment gets the category "Very feasible" with the overall average result of the assessment that has been given is 4.52. Then, the material expert assessment gets the category "Very feasible" with the overall average result of the assessment that has been given is 4.56. 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 4.74. And based on the results of media trials on 20 students in class XI Electrical Power Installation Engineering, the results of the N-Gain effectiveness test were 0.78 with a category of "High" effectiveness level. So it is concluded that the Google Sites-Based Interactive E-Module on 1 Phase Electrical Power Installation Material is a learning media that is feasible and effective to use.

***Keywords**: Interactive E-module, Electrical Power Installation, Feasibility, Effectiveness.*