

ABSTRAK

Aulia Wulandari, NIM (5211131004) Pengembangan E-Modul Berbasis *Flipbook* Untuk Meningkatkan Hasil Belajar Dasar Dasar Teknik Ketenagalistrikan Siswa Kelas TJTL SMK Negeri 1 Percut Sei Tuan.

Penelitian ini bertujuan untuk mengembangkan e-modul berbasis *flipbook* pada mata pelajaran dasar dasar teknik ketenagalistrikan khususnya pada materi alat tangan dan alat kerja kelistrikan siswa kelas X SMK Negeri 1 Percut Sei Tuan. Model pengembangan yang digunakan dalam penelitian ini adalah 4D, yang meliputi 4 tahapan, yaitu : *Define, Design, Development*, dan *Disseminate*. Hasil penelitian menunjukkan bahwa e-modul berbasis *flipbook* memiliki kelayakan yang sangat baik dengan persentase kelayakan media 91,66% dan kelayakan materi 93,75% berdasarkan penilaian para ahli. Dari segi efektivitas, terbukti hasil N-Gain sebesar 71%. Kesimpulannya, e-modul berbasis *flipbook* pada mata pelajaran Dasar Dasar Teknik Ketenagalistrikan khususnya pada materi Alat Tangan dan Alat Kerja Kelistrikan dinilai sangat layak dan hasil N-Gain dinyatakan dengan kategori g-Tinggi untuk meningkatkan hasil belajar siswa Dasar Dasar Teknik Ketenagalistrikan siswa kelas X TJTL SMK Negeri 1 Percut Sei Tuan.

Kata Kunci : Pengembangan E-Modul, *Flipbook*, hasil belajar, Dasar Dasar Teknik Ketenagalistrikan



ABSTRACT

Aulia Wulandari, NIM (5211131004) Development of a Flipbook-Based E-Module to Improve Learning Outcomes of Basic Electrical Engineering Students of Grade X TJTL at SMK Negeri 1 Percut Sei Tuan.

This study aims to develop a flipbook-based e-module on the subject of basic electrical engineering, especially on the material of hand tools and electrical work tools for class X students of SMK Negeri 1 Percut Sei Tuan. The development model used in this study is 4D, which includes 4 stages, namely: Define, Design, Development, and Disseminate. The results of the study indicate that the flipbook-based e-module has very good feasibility with a percentage of media feasibility of 91.66% and material feasibility of 93.75% based on expert assessments. In terms of effectiveness, the N-Gain result is proven to be 71%. In conclusion, the flipbook-based e-module on the subject of Basic Electrical Engineering, especially on the material of Hand Tools and Electrical Work Tools is considered very feasible and the N-Gain result is stated in the g-High category to improve the learning outcomes of Basic Electrical Engineering students of class X TJTL SMK Negeri 1 Percut Sei Tuan.

Keywords: E-Module Development, Flipbook, learning outcomes, Basic Electrical Engineering

