

ABSTRAK

Andre Panjaitan, NIM 5183122019: “*Pengembangan E-Module Flipbook Untuk Meningkatkan Hasil Belajar Pada Mata Pelajaran Teknologi Dasar Otomotif Siswa Kelas X di SMK TI Swasta Budi Agung Medan*”. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2022.

Penelitian ini bertujuan untuk mengetahui: (1) Mengembangkan *e-module flipbook* pada mata pelajaran Teknologi dasar otomotif di kelas X SMK TI Swasta Budi Agung Medan; (2) Mengetahui tingkat kelayakan *e-module flipbook* menurut para ahli; (3) Mengetahui efektifitas *e-module flipbook* terhadap hasil belajar siswa pada mata pelajaran Teknologi dasar otomotif di kelas X SMK TI Swasta Budi Agung Medan.

Metode R&D pada penelitian ini dilakukan dengan: (1) menganalisis masalah dengan membagikan angket kebutuhan siswa dan angket kebutuhan guru. (2) pengumpulan data, (3) membuat produk, (4) validasi oleh pakar materi, pakar media, dan pakar desain pembelajaran, (5) melakukan uji coba sebanyak 3 tahap, uji coba kelompok kecil, uji coba kelompok sedang dan uji coba kelompok besar kepada siswa kelas X TKR Smk TI Budi Agung Medan.

Tingkat kelayakan *E-module flipbook* ini menurut ahli materi berada pada kriteria “Sangat Baik” (97%), menurut ahli media berada pada kriteria “Sangat Baik” (85%), dan menurut ahli desain pembelajaran berada pada kriteria “Sangat Baik” (92%), berdasarkan uji coba kelompok kecil (5 orang siswa) mendapat kriteria “Sangat Baik” (95%), uji coba kelompok sedang (15 orang siswa) mendapat kriteria “Sangat Baik” (92%), dan uji coba kelompok besar (35 orang siswa) mendapat kriteria “Sangat Baik” (93%), hasil *pre test* siswa mendapat nilai rata-rata 56 dengan 11 orang siswa tuntas dan 24 tidak tuntas, dan hasil *post test* siswa mendapat nilai rata-rata 77 dengan 27 siswa yang tuntas dan 8 orang tidak tuntas. Sehingga dapat disimpulkan bahwa pengembangan *e-module flipbook* pada mata pelajaran teknologi dasar otomotif “Sangat layak” digunakan sebagai media pembelajaran bagi siswa kelas X SMK TI Budi Agung Medan.

Kata Kunci: Pengembangan, *E-Module Flipbook*, Hasil Belajar, Teknologi dasar otomotif

ABSTRACT

Andre Panjaitan, NIM 5183122019: "*Development of an E-Module Flipbook to Improve Learning Outcomes in the Subject of Automotive Basic Technology for Class X Students at Budi Agung's Private TI Vocational School, Medan*". Thesis. Faculty of Engineering, Medan State University. 2022.

This study aims to determine: (1) Developing an e-module flipbook in the subject of basic automotive technology in class X at Budi Agung's Private IT Vocational School, Medan; (2) Knowing the feasibility level of the flipbook e-module according to experts; (3) Knowing the effectiveness of the e-module flipbook on student learning outcomes in the subject of basic automotive technology in class X at Budi Agung's Private TI Vocational School, Medan.

The R&D method in this study was carried out by: (1) analyzing the problem by distributing questionnaires of student needs and teacher needs questionnaires. (2) data collection, (3) making products, (4) validation by material experts, media experts, and learning design experts, (5) conducting trials in 3 stages, small group trials, medium group trials and trials large group to class X TKR SMA TI Budi Agung Medan.

The eligibility level of this flipbook E-module according to material experts is in the criteria of "Very Good" (97%), according to media experts it is in the criteria of "Very Good" (85%), and according to learning design experts it is in the criteria of "Very Good" (92%), based on small group trials (5 students) got the criteria of "Very Good" (95%), medium group trials (15 students) got the criteria of "Very Good" (92%), and large group trials (35 students) got the criteria of "Very Good" (93%), the students' pre-test results got an average score of 56 with 11 students completing and 24 not completing, and the students' post-test results got an average score of 77 with 27 students completed and 8 people did not complete. So it can be concluded that the development of an e-module flipbook on basic automotive technology subjects "Very feasible" is used as a learning medium for class X students of SMK TI Budi Agung Medan.

Keywords: Development, E-Module Flipbook, Learning Outcomes, Basic automotive technology

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