

ABSTRAK

Ajeng Indah Permatasari. Pengembangan E-book Interaktif Berbasis 3D PageFlip dengan Pendekatan Contextual Teaching and Learning pada Materi Kinematika Gerak Lurus di SMA Kelas X. Skripsi. Jakarta: Program Studi Pendidikan Fisika, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Negeri Jakarta, Juli 2018

Penelitian ini bertujuan untuk mengembangkan *E-book* berbasis 3D *PageFlip* dengan pendekatan *Contextual Teaching and Learning* (CTL) untuk SMA kelas X pada materi pokok Kinematika Gerak Lurus yang memenuhi kriteria baik. Metode penelitian yang digunakan adalah metode *Research and Development* (R&D) dengan menggunakan desain ADDIE (*Analyze – Desain – Development – Implementation – Evaluation*). Ebook ini diharapkan dapat menambah minat siswa untuk belajar mandiri sehingga mereka dapat memahami konsep dan aplikasi fisika. Hasil dari project yang dibuat, akan publish dengan format exe dalam CD, flashdisk dan micro sd, sehingga dapat digunakan melalui komputer, laptop dan netbook. *E-book* dengan pendekatan CTL telah melalui uji validasi yang melibatkan ahli materi, ahli media dan ahli pembelajaran dengan presentase pencapaian 85% menurut ahli materi, 78% menurut ahli media dan 76.2% menurut ahli pembelajaran. Uji lapangan *E-book* ini dilakukan kepada 30 peserta didik SMA dan guru fisika di SMAN 105 Jakarta dengan presentase capaian 89.8% menurut peserta didik dan 85.6% menurut guru. Berdasarkan hasil analisis rerata nilai pretes adalah 56.33, dan rerata nilai postes adalah 76.33 dari skor maksimal 100. Nilai uji N-Gain yang diperoleh adalah 0.42 dengan kriteria sedang. Nilai tersebut dapat menggambarkan adanya peningkatan pengetahuan, sehingga *E-book* yang dikembangkan dengan pendekatan *Contextual Teaching and Learning* (CTL) pada materi Kinematika Gerak Lurus layak digunakan sebagai media pembelajaran fisika bagi siswa SMA kelas X semester ganjil.

Kata Kunci : *E-book, Contextual Teaching and Learning, ADDIE*

ABSTRACT

Ajeng Indah Permatasari. Development of Interactive E-book Based on 3D PageFlip with Contextual Teaching and Learning on Straight Motion Kinetic in High School Class X. Thesis. Jakarta: Physics Education Study Program, Faculty of Mathematics and Natural Sciences, Jakarta State University, July 2018

This research aims to develop e-book Based on 3D PageFlip with a Contextual Teaching and Learning (CTL) approach to class X SMA in the subject matter of Straight Motion Kinematics that meet good criteria. The research method used is the Research and Development (R & D) method using the ADDIE (Analyze - Design - Development - Implementation - Evaluation) design. This ebook is expected to increase students' interest in learning independently so that they can understand physics concepts and applications. The results of the project created will publish with the exe format on CD, flashdisk and micro sd, so it can be used through computers, laptops and netbooks. The e-book with the CTL approach has gone through a validation test involving material experts, media experts and learning experts with a percentage of achievement of 85% according to material experts, 78% according to media experts and 76.2% according to learning experts. Field test This e-book was conducted to 30 high school students and physics teachers at SMAN 105 Jakarta with a percentage of achievement of 89.8% according to students and 85.6% according to the teacher. Based on the results of the analysis of the average pretest score is 56.33, and the mean posttest score is 76.33 from a maximum score of 100. The value of the N-Gain test obtained is 0.42 with the criteria being medium. This value can illustrate an increase in knowledge, so that the E-book developed with the Contextual Teaching and Learning (CTL) approach on the material of Straight Motion Kinematics is suitable for use as a physics learning medium for odd semester X class high school students.

Keywords: *E-book, Contextual Teaching and Learning, ADDIE*