ABSTRAK
PENGEMBANGAN MODUL DIGITAL TENTANG GERAK LURUS
UNTUK MENINGKATKAN PEMAHAMAN SISWA SMA

Rofi Ardianto

Universitas Sanata Dharma

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Penelitian ini dilakukan untuk mengetahui: (1) kualitas produk modul digital pada materi gerak lurus menurut para ahli/pakar materi, (2) respon peserta didik terhadap penggunaan modul digital (3) peningkatan pemahaman konsep fisika peserta didik pada materi gerak lurus.

Penelitian ini dilakukan dengan model pengembangan ADDIE, yaitu (1) *Analysis, (2) Desain,* (3) *Development,* (4) *Implementation* produk, dan (5) *Evaluation.* Teknik pengumpulan data berupa dengan pengisian lembar soal pre-test dan post-tes serta kuesioner untuk menguji peningkatan pemahaman konsep fisika. Instrumen penelitian berupa lembar validasi, angket respon peserta didik, dan lembar soal pre-tes dan post-tes.

Hasil penelitian menunjukan bahwa; (1) hasil penilaian ahli/pakar materi memperoleh skor rata-rata total sebesar 3,30 dengan kategori "layak". (2) Hasil respon peserta didik terhadap penggunaan modul digital mendapatkan skor sebesar 3,35 dengan kategori "sangat baik". (3) peningkatan pemahaman konsep fisika peserta didik kelas X2 SMA N 1 Sanden Bantul setelah menggunakan modul digital mendapatkan skor N-Gain sebesar 0,50 dengan kategori "sedang". Dapat disimpulkan bahwa produk digital pada materi gerak lurus layak digunakan sebagai bahan ajar fisika.

Kata Kunci: Modul Digital, Bahan ajar fisika, Peningkatan pemahaman konsep fisika

ABSTRACT

DEVELOPMENT OF A DIGITAL MODULE ABOUT LINEAR MOTION TO IMPROVE UNDERSTANDING OF HIGH SCHOOL STUDENTS

Rofi Ardianto

Sanata Dharma University

2023

This research was conducted to find out: (1) the product quality of digital modules on straight motion material according to material experts/experts, (2) students' responses to the use of digital modules (3) increase students' understanding of physics concepts and linear motion material.

This research was carried out using the ADDIE development model, namely (1) Analysis, (2) Design, (3) Development, (4) product implementation, and (5) evaluation. The data collection technique was in the form of filling out pre-test and post-test question sheets as well as questionnaires to test the increased understanding of physics concepts. The research instruments were validation sheets, student response questionnaires, and pre-test and post-test question sheets.

The research results show that; (1) the results of the expert/matter expert assessment obtained a total average score of 3.30 in the "Descent" category. (2) The results of student responses to the use of digital modules get a score of 3.35 in the "Very Good" category. (3) increasing the understanding of physics concepts in class X2 students of SMA N 1 Sanden Bantul after using the digital module, they get an N-Gain score of 0.50 in the "Moderate" category. It can be concluded that digital products on straight motion material are suitable for use as physics teaching materials.

Keywords:Digital Modules, Physics teaching materials, Increased understanding of physics concept