

ABSTRACT

Indri Hertika. NIM 4213121004 (2021). Pengembangan *E-Modul* Berbasis *Problem Solving* Berbantuan *Heyzine Flipbook* Pada Materi Kinematika Gerak Lurus Untuk Meningkatkan Hasil Belajar Siswa Di Sma N 1 Bilah Hulu.

Penelitian ini bertujuan untuk mengembangkan e-modul fisika berbasis problem solving dan menganalisis kelayakan, kepraktisan, dan peningkatan hasil belajar peserta didik pada materi kinematika gerak lurus di kelas XI SMA Negeri 1 Bilah Hulu. Jenis penelitian ini adalah penelitian pengembangan atau Research and Development (R&D) dengan menggunakan model ADDIE, yang terdiri dari: Analysis, Design, Development, Implementation, Evaluasi. Subjek penelitian yaitu ahli media, ahli materi, ahli pembelajaran, guru mata pelajaran fisika, dan peserta didik kelas XI-2 SMA Negeri 1 Bilah Hulu. Hasil penelitian uji kelayakan yang dikembangkan dikategorikan “sangat layak” dengan memperoleh nilai rata-rata sebesar 85% berdasarkan hasil validasi materi, 88,9% berdasarkan hasil validasi media, 96,6% berdasarkan hasil validasi pembelajaran, dan 96,6% berdasarkan hasil validasi guru pelajaran. E-modul juga dikategorikan “sangat praktis” dengan memperoleh nilai rata-rata sebesar 90,61% berdasarkan uji coba yang dilakukan pada 29 siswa kelas XI-2. Peningkatan hasil belajar siswa dinilai melalui pretest dan posttest menunjukkan skor N-gain sebesar 0,70 dengan kategori “tinggi”, dengan nilai rata-rata pretest 33,8 dan posttest 80. Dengan demikian, dapat disimpulkan bahwa e-modul fisika berbasis problem solving layak, praktis, dan meningkatkan hasil belajar siswa pada materi kinematika gerak lurus.

Kata Kunci: E-Modul, Problem Solving, Kinematika Gerak Lurus, Hasil Belajar.

ABSTRACT

Indri Hertika. NIM 4213121004 (2021). *Development of Problem Solving-Based E-Module Assisted by Heyzine Flipbook on Linear Motion Kinematics Materials to Improve Student Learning Outcomes at SMA N 1 Bilah Hulu.*

This study aims to develop a problem-solving-based physics e-module and analyze the feasibility, practicality, and improvement of student learning outcomes in the kinematics of straight motion material in class XI of SMA Negeri 1 Bilah Hulu. This type of research is a development research or Research and Development (R&D) using the ADDIE model, which consists of: Analysis, Design, Development, Implementation, Evaluation. The subjects of the study were media experts, material experts, learning experts, physics subject teachers, and class XI-2 students of SMA Negeri 1 Bilah Hulu. The results of the feasibility test developed were categorized as "very feasible" by obtaining an average value of 85% based on the results of material validation, 88.9% based on the results of media validation, 96.6% based on the results of learning validation, and 96.6% based on the results of subject teacher validation. The e-module was also categorized as "very practical" by obtaining an average value of 90.61% based on trials conducted on 29 students of class XI-2. The improvement of student learning outcomes assessed through pretest and posttest showed an N-gain score of 0.70 in the "high" category, with an average pretest score of 33.8 and a posttest of 80. Thus, it can be concluded that the problem-solving-based physics e-module is feasible, practical, and improves student learning outcomes in the kinematics of straight motion material.

Keywords: E-Module, Problem Solving, Kinematika Gerak Lurus, Learning Outcomes. lurus.