

ABSTRAK

**PENGEMBANGAN E-MODUL INTERAKTIF PADA MATERI
ELASTISITAS DAN HUKUM HOOKE MENGGUNAKAN APLIKASI
HEYZINE**

Gaby Latuva Rumahorbo
Universitas Sanata Dharma
Yogyakarta
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Penelitian ini bertujuan untuk: (1) Mengembangkan e-modul interaktif materi elastisitas dan hukum Hooke menggunakan aplikasi *Heyzine*, (2) Mengetahui efektivitas penggunaan e-modul interaktif materi elastisitas dan hukum Hooke menggunakan aplikasi *Heyzine* dalam pembelajaran fisika.

Metode penelitian yang digunakan adalah *research and development* (R&D) dengan menggunakan model ADDIE (*Analyze-Design-Development-Implementation-Evaluation*). Instrumen penelitian yang digunakan adalah instrumen tes dan instrumen non-tes: (1) Instrumen tes, meliputi soal *pretest* dan *posttest*, (2) Instrumen non-tes, meliputi lembar validasi ahli materi, lembar validasi ahli media, lembar validasi ahli bahasa, lembar keterbacaan rekan sejawat, dan lembar keterbacaan peserta didik.

Hasil penelitian menunjukkan bahwa: (1) E-modul interaktif materi elastisitas dan hukum Hooke sangat layak digunakan dalam pembelajaran fisika sesuai dengan rata-rata hasil validasi ahli materi memperoleh skor 115,5 dengan persentase 87,5% (sangat layak), rata-rata hasil validasi ahli media memperoleh skor 75,5 dengan persentase 94,38% (sangat layak), hasil validasi ahli bahasa memperoleh skor 37 dengan persentase 77,08% (layak), dan rata-rata hasil keterbacaan peserta didik memperoleh skor 64,4 dengan persentase 89,44%, (2) E-modul interaktif materi elastisitas dan hukum Hooke sangat efektif digunakan dalam pembelajaran fisika sesuai dengan rata-rata hasil uji *N-Gain* dengan skor 0,787 yang termasuk kategori “tinggi”.

Kata kunci: e-modul Interaktif, elastisitas dan hukum Hooke, *Heyzine*

ABSTRACT

DEVELOPMENT OF INTERACTIVE E-MODULE ON ELASTICITY AND HOOKE'S LAW MATERIAL USING THE HEYZINE APPLICATION

Gaby Latuva Rumahorbo
Sanata Dharma University
Yogyakarta
2023

This research was conducted for the following purposes: (1) Develop interactive e-modules elasticity and Hooke's law using the Heyzine application, (2) Determine the effectiveness of using interactive e-modules elasticity and Hooke's law using the Heyzine application in physics learning.

The research method used is research and development (R&D) using the ADDIE model (Analyze-Design-Development-Implementation-Evaluation). The research instruments used were test instruments and non-test instruments: (1) Test instruments, including pretest and posttest questions, (2) Non test instruments, including material expert validation sheets, media expert validation sheets, linguist validation sheets, peer reading sheets, and student reading sheets.

The results showed that: (1) Interactive e-modules the material of elasticity and Hooke's law are very feasible to use in learning Physics according to the average validation results of material experts obtained a score of 115.5 with a percentage of 87.5% (very feasible), the average validation results of media experts obtained a score of 75.5 with a percentage of 94.38% (very feasible), the results of linguist validation obtained a score of 37 with a percentage of 77.08% (feasible), and the average results of student readability obtained a score of 64.4 with a percentage of 89.44%, (2) Interactive e-modules elasticity and Hooke's law are very effective in learning Physics according to the average N-Gain test results with a score of 0.787 which is included in the "high" category.

Keywords: *interactive e-module, elasticity and Hooke's law, Heyzine*