ABSTRAK

PENGEMBANGAN E-MODUL BERBASIS *HEYZINE* TERINTEGRASI *DIGITAL LEARNING PLATFORM* PADA MATERI METABOLISME KELAS XII

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Pembelajaran daring menjadi andalan guru dalam melaksanakan pembelajaran selama masa pandemi Covid-19. Pemanfaatan dan penguasaan teknologi menjadi tuntutan bagi guru maupun peserta didik. Namun dalam pelaksanaannya masih terdapat kendala yang ditemui di 7 SMA di daerah Yogyakarta dan Klaten. Kendala tersebut antara lain kurangnya keaktifan peserta didik, media pembelajaran yang kurang menarik, variatif dan interaktif. Pada mata pelajaran biologi, materi metabolisme adalah salah satu materi yang sulit dipahami peserta didik kelas XII dan sulit untuk disampaikan oleh guru. Penelitian ini bertujuan untuk mengetahui cara pengembangan dan kelayakan dari e-modul berbasis *heyzine* terintegrasi *digital learning platform* pada materi metabolisme kelas XII.

Penelitian pengembangan ini mengacu pada langkah-langkah pengembangan ADDIE (*Analyze, Design, Development, Implementation, and Evaluation*) yang dibatasi hingga tahap pengembangan. Tahapan yang dilakukan diawali dengan analisis kebutuhan di tujuh sekolah daerah Yogyakarta dan Klaten. Berdasarkan analisis tersebut, selanjutnya dilakukan perancangan, pengembangan dan uji kelayakan e-modul dengan uji validasi dari satu ahli materi, dua ahli media serta tiga guru biologi SMA. E-modul dibuat menggunakan canva yang dikonversi dengan *website heyzine flipbook* yang diintegrasikan dengan empat *digital learning platform*: *liveworksheet, wordwall, padlet, YouTube*. Pada e-modul berbasis *heyzine* terdapat komponen halaman *cover*, petunjuk penggunaan, daftar isi, glosarium, peta konsep, pendahuluan, kegiatan pembelajaran (uraian materi, tugas, latihan soal, refleksi), evaluasi, dan daftar pustaka. Jenis data pada penelitian berupa data kualitatif dan data kuantitatif yang dianalisis dengan skala likert. Hasil validasi menunjukkan bahwa skor rata-rata e-modul berbasis *heyzine* sebesar 89% dengan kriteria "Sangat Valid" sehingga layak untuk diujicobakan dengan revisi.

Kata kunci: e-modul, *heyzine*, *flipbook*, metabolisme, *digital learning platform*

ABSTRACT

DEVELOPMENT OF HEYZINE BASED E-MODULE INTEGRATED DIGITAL LEARNING PLATFORM ON CLASS XII METABOLISM MATERIALS

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Online learning has become a mainstay for teachers in carrying out learning during the Covid-19 pandemic. Utilization and mastery of technology is a demand for teachers and students. However, in practice there are still obstacles encountered in 7 high schools in the Yogyakarta and Klaten areas. These obstacles include the lack of student activity, learning media that are less attractive, varied and interactive. In biology subjects, metabolism material is one of the materials that is difficult for class XII students to understand and difficult for teachers to convey. This study aims to find out how to develop and feasibility of heyzine-based e-modules integrated with digital learning platforms in class XII metabolism material.

This development research refers to the ADDIE (Analyze, Design, Development, Implementation, and Evaluation) development steps which are limited to the development stage. The steps taken began with a needs analysis in seven schools in the Yogyakarta and Klaten areas. Based on this analysis, then the design, development and feasibility test of the e-module was carried out with a validation test from one material expert, two media experts and three high school biology teachers. The e-module was created using Canva which was converted with the heyzine flipbook website which was integrated with four digital learning platforms: liveworksheet, wordwall, padlet, YouTube. The heyzine-based e-module includes cover page components, instructions for use, table of contents, glossary, concept map, introduction, learning activities (description of material, assignments, practice questions, reflection), evaluation, and bibliography. The type of data in this research is in the form of qualitative data and quantitative data which are analyzed using a Likert scale. The validation results show that the average score of the heyzine-based e-module is 89% with the criteria of "Very Valid" so it is feasible to be tested with revisions.

Keywords: *e-module, heyzine, flipbook, metabolism, digital learning platform*