ABSTRAK

PENGEMBANGAN MODUL DIGITAL INTERAKTIF BERBASIS *WEB* TERINTEGRASI AUDIO *PODCAST* PADA MATERI SISTEM HORMON KELAS XI

Th. Alvita Elviana
Universitas Sanata Dharma
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Pemanfaatan media teknologi informasi dalam penerapan sistem pembelajaran *blended learning* masih terus dibutuhkan. Pendidik mengharapkan adanya keaktifan dan kemandirian belajar peserta didik pada sistem *blended learning*. Namun, pada implementasinya banyak peserta didik yang merasa bosan, kurang aktif dan tertarik dalam belajar sehingga sulit memahami materi dalam pembelajaran. Materi sistem koordinasi terkhusus materi sistem hormon menjadi salah satu materi yang dianggap sulit dan perlu mendapat perhatian. Pendidik memerlukan adanya pengembangan media pembelajaran yang dapat menunjang proses belajar *blended learning*. Modul digital interaktif berbasis *web* terintegrasi audio *podcast* sebagai media pembelajaran menjadi solusi mengatasi permasalahan sulitnya memahami materi sistem hormon. Penelitian ini bertujuan untuk mengetahui pengembangan dan kelayakan modul digital interaktif berbasis *web* terintegrasi audio *podcast* pada materi sistem hormon kelas XI.

Penelitian ini termasuk jenis R&D dengan mengadaptasi model ADDIE. Namun, pelaksanaannya dibatasi sampai tahapan *development*. Teknik pengumpulan data dilakukan menggunakan instrumen wawancara dan kuisioner. Tahapan validasi produk dilakukan oleh empat validator, yaitu dosen ahli materi, dosen ahli media, dan dua guru biologi SMA. Berdasarkan hasil validasi produk modul digital interaktif berbasis *web* terintegrasi audio *podcast* memperoleh rata-rata skor 3,83 yang menunjukkan kriteria sangat baik. Produk modul digital interaktif yang dikembangkan dinyatakan layak digunakan/ diujicobakan dengan perbaikan sesuai komentar dan saran perbaikan dari validator.

Kata kunci: *R&D, modul digital interaktif berbasis web, audio podcast, sistem hormon*

ABSTRACT

DEVELOPMENT OF WEB-BASED INTERACTIVE DIGITAL MODULE INTEGRATED WITH AUDIO PODCAST TO TEACH HORMONE SYSTEM MATERIALS FOR 11th GRADE STUDENTS

Th. Alvita Elviana
Sanata Dharma University
2022

The use of information technology media in the application of blended learning systems is still needed. Educators expect the activeness and independence of students in learning and exploring their knowledge in blended learning. However, in its implementation, many students feel bored, less active, and interested in learning and find it difficult to understand the material in the learning. The material on the coordination system especially about hormone system is one of the materials considered difficult and needed attention. Educators need the development of learning media that can support the blended learning process. An interactive web-based digital module integrated with audio podcasts as a learning medium is a solution to the difficulty of understanding hormone system material. This study aims to determine the development and feasibility of a web-based interactive digital module integrated with audio podcasts on the hormone system materials 11th grade students.

This research belongs to the type of R&D by adapting the ADDIE model. However, its implementation is limited to the development stage. Data collection techniques were carried out using interview instruments and questionnaires. The product validation stages are carried out by four validators, namely one material expert lecturer, one media expert lecturer, and a high school biology teacher. Based on the results of the product validation, the web-based interactive digital module integrated with audio podcasts obtained an average score of 3.83 which indicates the criteria of very good. The interactive digital module product developed is declared suitable for use/testing with improvements from the validators.

Keywords: R&Ds, web-based interactive digital module, audio podcast, hormone system