

ABSTRAK

PENGEMBANGAN E-MODUL BERBASIS *FLIPPED CLASSROOM* PADA MATERI SISTEM REPRODUKSI KELAS XI SMA

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Pandemi *covid-19* menyebabkan perubahan pelaksanaan pembelajaran yakni melalui sistem pembelajaran *online*. Pelaksanaan pembelajaran *online* ini memiliki beberapa kendala dan permasalahan. Keterbatasan waktu menyebabkan guru tidak dapat menyiapkan media pembelajaran yang menarik, sehingga peserta didik merasa bosan. Materi yang dianggap sulit adalah materi sistem reproduksi karena memiliki banyak proses yang tidak dapat dilihat secara langsung. Solusi dari permasalahan ini adalah pengembangan E-modul berbasis *flipped classroom*. Penelitian ini bertujuan untuk mengembangkan E-modul berbasis *flipped classroom* dan mengetahui kelayakan produk tersebut.

Jenis penelitian yang digunakan *Research and Development* dengan model pengembangan Borg dan Gall. Penelitian ini hanya melakukan lima tahapan penelitian meliputi 1) potensi dan masalah; 2) pengumpulan data; 3) desain produk; 4) validasi desain dan revisi desain. Teknik pengumpulan data yang digunakan yaitu wawancara analisis kebutuhan dan kuesioner validasi produk. Teknik analisis data yang digunakan yaitu teknik analisis data kualitatif dan kuantitatif. E-modul dikembangkan dengan *Flip PDF Professional* serta mengandung komponen gambar, tulisan dan video. Hasil validasi menunjukkan E-modul berbasis *flipped classroom* dari aspek materi serta media memperoleh nilai rata-rata 3,69 dan termasuk dalam kategori sangat baik. Berdasarkan hasil validasi yang diperoleh dapat disimpulkan bahwa pengembangan E-modul berbasis *flipped classroom* layak diujicobakan kepada peserta didik dalam skala terbatas dengan revisi.

Kata Kunci: E-modul, *flipped classroom*, sistem reproduksi manusia.

ABSTRACT*Development Of Flipped Classroom-Based E-Modules to Teach Reproductive System Materials for 11th Grade Students*

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The COVID-19 pandemic has caused changes in the implementation of learning, namely through the online learning system. The implementation of this online learning has several obstacles and problems. Time constraints cause teachers to be unable to prepare interesting learning media, so students feel bored. The material that is considered difficult is the material of the reproductive system because it has many processes that cannot be seen directly. The solution to this problem is the development of an E-module based on flipped classroom. This study aims to develop an E-module based on the flipped classroom and determine the feasibility of the product.

This type of research used is Research and Development with the Borg and Gall development model. This study only carried out five stages of research including 1) potential and problems; 2) data collection; 3) product design; 4) design validation and design revision. Data collection techniques used are needs analysis interviews and product validation questionnaires. The data analysis technique used is qualitative and quantitative data analysis techniques. The e-module was develop with Flip PDF Professional and contains image, text and video components. The validation result show that the flipped classroom-based E-module from the material and media aspects obtained an average score of 3.69 and is included in the very good category. Based on the validation results obtained, it can be concluded that the development of an E-module based on the flipped classroom is feasible to be tested on students on a limited scale with revisions.

Keywords: *E-module, flipped classroom, and human reproductive system.*