

ABSTRAK

PENGEMBANGAN E-MODUL INTERAKTIF *COME STUDY BIOLOGY*
(*COSTUBIO*) BERBASIS *WEBSITE* PADA MATERI SEL KELAS XI

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Terdapat berbagai persoalan yang dihadapi guru dan peserta didik akibat pandemi Covid-19 yang membuat sekolah-sekolah di Indonesia menerapkan pembelajaran jarak jauh. Berdasarkan hasil analisis kebutuhan yang dilakukan di lima Sekolah Menengah Atas (SMA) di Daerah Istimewa Yogyakarta dan Jawa Tengah terdapat beberapa permasalahan antara lain menurunnya keaktifan peserta didik, minat, dan motivasi belajar, penggunaan media pembelajaran yang kurang bervariasi oleh guru dan kesulitan bagi peserta didik dalam memahami materi pembelajaran sel karena memiliki sifat yang abstrak. Tujuan penelitian ini adalah untuk mengetahui kelayakan media pembelajaran berupa E-modul interaktif berbasis *Website* pada materi sel untuk kelas XI.

Penelitian ini termasuk ke dalam kategori penelitian dan pengembangan (R&D). Dalam pengembangan E-Modul digunakan lima dari sepuluh langkah penelitian dan pengembangan yang dikembangkan menurut Sugiyono. Di lima SMA, dilakukan wawancara analisis kebutuhan untuk mengidentifikasi potensi dan permasalahan. Selanjutnya produk yang telah dikembangkan diuji kelayakannya oleh ahli materi, ahli media dan dua orang guru mata pelajaran biologi. Data penelitian dianalisis secara kualitatif dan kuantitatif. Pada akhir tahapan, produk dilakukan revisi sesuai dengan saran dan masukan validator.

Hasil penelitian menunjukkan bahwa E-Modul Berbasis *Website* dikembangkan dengan menggunakan *google sites* yang dilengkapi dengan menu yang terdiri dari halaman utama, petunjuk penggunaan, materi pembelajaran, gambar dan video pembelajaran, penugasan, evaluasi, daftar pustaka dan profil kreator. Skor rata-rata 3,55 dengan kriteria “Sangat Baik” diperoleh berdasarkan hasil validitas materi dan media. Dengan demikian dapat dikatakan bahwa pembelajaran E-Modul *Come Study Biology* berbasis *website* pada materi sel kelas XI merupakan media pembelajaran yang layak untuk diujicobakan dalam skala terbatas.

Kata Kunci: E-Modul interaktif, *Costubio*, *Research and Development* (R&D), *Website*, Sel

ABSTRACT

**THE DEVELOPMENT OF COME STUDY BIOLOGY (COSTUBIO)
INTERACTIVE E-MODULE BASED ON WEBSITE ON CLASS XI CELL
MATERIALS**

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There are various issues that teachers and students must deal with as a result of the Covid-19 pandemic, which forced Indonesian schools to embrace distance learning. According to the findings of the needs analysis carried out in five senior high schools (SMA) in the Special Region of Yogyakarta and Central Java, there are a number of issues, including decreased student activity, interest, and motivation to learn, the use of learning media that lacks variety by teachers and difficulties for students in comprehending cell learning material because it has an abstract nature. The purpose of this study is to determine the feasibility of learning media in the form of website based interactive E-modules on cell materials for class XI.

This study fits into the category of research and development (R&D). In the development of E-Module use five of the ten steps of research and development developed according to Sugiyono. In five SMA, needs analysis interviews were done to identify potentials and issues. Furthermore, the products that have been developed are tested for feasibility by material experts, media experts and two biology subject teachers. The research data were analyzed qualitatively and quantitatively. At the conclusion of the stage, a product is revised in accordance with the validator's recommendations and feedback.

The results showed that the Website-based E-Module was developed using google sites which is equipped with menus consisting of main pages, instructions for use, learning materials, learning pictures and videos, assignments, evaluations bibliography and creator profiles. An average score of 3.55 using the criterion of "Very Good" was obtained based on the study of the validity of the content and media. As a result, it can be said that the interactive Come Study Biology E-Module learning based on the Website on the class XI cell material is a teaching tool that deserves to be test on limited scale.

Keywords: *Interactive E-Module, Costubio, Research and Development (R&D), Website, Cell*