ABSTRAK

PENGEMBANGAN E-MODUL *FUNBIOLOGY* BERBASIS *WEBSITE* PADA MATERI SISTEM SARAF KELAS XI

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Berdasarkan hasil analisis kebutuhan lima Sekolah Menengah Atas (SMA) di Yogyakarta dan Lampung, menunjukan adanya permasalahan yang muncul selama proses pembelajaran daring. Permasalahan tersebut adalah kurangnya interaksi selama proses kegiatan pembelajaran yang dapat meningkatnya hasil belajar peserta didik, kesulitan memahami materi sistem saraf, keterbatasan sumber bacaan pada materi kompleks, dan akses internet yang sulit. Oleh karena itu, peneliti mengembangkan *e-modul Funbiology* berbasis *website* pada materi sistem saraf kelas XI. Penelitian ini bertujuan untuk mengetahui desain media dan mengetahui kelayakan media.

Jenis penelitian yang digunakan adalah *Research and Development* (R&D) menurut Sugiyono. Penelitian ini dilaksanakan sampai revisi produk sehingga kelayakannya teruji. Produk yang dikembangkan peneliti selanjutnya divalidasi oleh satu ahli media dari Dosen Prodi Teknik Informatika, satu ahli materi dari Dosen Prodi Pendidikan Biologi, dan dua Guru Biologi SMA. Data penelitian dianalisis menggunakan analisis kuantitatif dan kualitatif. Hasil yang didapatkan pada penelitian ini menunjukan rata-rata 3,54 dengan kategori sangat baik. Oleh karena itu, *e-modul Funbiology* berbasis *website* pada materi sistem saraf kelas XI layak digunakan untuk diujicobakan secara terbatas sesuai masukan dari para validator.

Kata kunci : E-Modul, *Funbiology*, Sistem Saraf, Research and Development (R&D).

ABSTRACT

DEVELOPMENT OF WEBSITE-BASED FUNBIOLOGY E-MODULES ON CLASS XI NERVOUS SYSTEM MATERIALS

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Based on the results of the needs analysis of five senior high schools (SMA) in Yogyakarta and Lampung, it shows that there are problems that arise during the online learning process. These problems are the lack of interaction during the process of learning activities that can increase student learning outcomes, difficulty understanding nervous system material, limited reading resources on complex material, and difficult internet access. Therefore, the researcher developed a website-based Funbiology e-module on class XI nervous system material. This study aims to determine the design of the media and determine the feasibility of the media.

The type of research used is Research and Development (R&D) according to Sugiyono. This research was carried out until the product was revised so that its feasibility was tested. The product developed by the researcher was further validated by one media expert from the Informatics Engineering Study Program Lecturer, one material expert from the Biology Education Study Program Lecturer, and two high school Biology teachers. The research data were analyzed using quantitative and qualitative analysis. The results obtained in this study showed an average of 3.54 with a very good category. Therefore, the website-based Funbiology e-module on class XI nervous system material deserves to be tested on a limited basis according to input from the validators.

Keywords: E-Modul, Funbiology, Nervous System, Research and Development (R&D.