PENGEMBANGAN MEDIA PEMBELAJARAN INTERAKTIF WEB GOOGLE SITES BERBASIS *PROBLEM BASED LEARNING* (PBL) PADA MATERI MIKROORGANISME UNTUK SISWA KELAS X SMA

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ABSTRAK

Penelitian ini bertujuan untuk menghasilkan media pembelajaran interaktif web google sites berbasis *problem based learning* pada materi mikroorganisme yang valid dan praktis. Penelitian dilakukan pada siswa kelas X SMAN 2 Singaraja. Pengembangan produk menggunakan model ADDIE (*Analysis, Design*, *Development*, *Implementation,* dan *Evaluation*). Produk yang dihasilkan dalam penelitian ini menampilkan komponen seperti teks, gambar, video, lembar kerja peserta didik (LKPD), dan quiz. Media pembelajaran mikroorganisme ini mencakup tiga materi yaitu virus, bakteri, dan jamur yang pada setiap materinya dilengkapi dengan satu kegiatan belajar. Uji validitas pada penelitian ini dilakukan oleh ahli materi dan ahli media. Uji kepraktisan dilakukan oleh 3 guru biologi dan 40 orang siswa kelas X SMAN 2 Singaraja. Analisis data dilakukan secara deskriptif untuk mengetahui validitas dan kepraktisan produk. Hasil penelitian menunjukkan bahwa: (1) Hasil dari setiap tahapan pengembangan menghasilkan produk berupa media pembelajaran interaktif web google sites berbasis *problem based learning* pada materi mikroorganisme untuk siswa kelas X, (2) Validitas web google sites berbasis *problem based learning* materi mikroorganisme dari ahli materi memperoleh persentase sebanyak 93% dengan kriteria sangat valid dan dari ahli media memperoleh persentase sebanyak 98.5% dengan kriteria sangat valid, (3) Kepraktisan web google sites berbasis *problem based learning* pada materi mikroorganisme terdiri dari uji kepraktisan guru dan siswa. Kepraktisan dari guru memperoleh persentase 93% dengan kriteria sangat praktis dan dari siswa memperoleh persentase 87% dengan kriteria sangat praktis. Berdasarkan hasil penelitian tersebut media pembelajaran interaktif web google sites pada materi mikroorganisme yang dikembangkan sangat valid dan sangat praktis digunakan sebagai media pembelajaran.

Kata Kunci: media pembelajaran interaktif, mikroorganisme, *problem-based learning*, web google sites.

DEVELOPMENT OF INTERACTIVE LEARNING MEDIA WEB GOOGLE SITES BASED ON PROBLEM-BASED LEARNING (PBL) ON MICROORGANISM MATERIAL FOR CLASS X HIGH SCHOOL STUDENTS

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ABSTRACT

This study aims to produce interactive learning media web google sites based on problem-based learning on microorganism material that is valid and practical. The research was conducted on class X students of SMAN 2 Singaraja. The product development used the ADDIE model (Analysis, Design, Development, Implementation, and Evaluation). The product produced in this study features components such as text, images, videos, student worksheets (LKPD), and quiz. This microorganism learning media includes three materials: viruses, bacteria, and fungi, each of which is accompanied by a corresponding learning activity. The validity test in this study was conducted by material experts and media experts. A practicality test was conducted by 3 biology teachers and 40 students of class X SMAN 2 Singaraja. Data analysis was done descriptively to determine the validity and practicality of the product. The results showed that: (1) The results of each stage of development produce products in the form of interactive learning media web google sites based on problem-based learning on microorganism material for class X students, (2) The validity of web google sites based on problem-based learning on microorganism material from material experts obtained a percentage of 93% with very valid criteria and from media experts obtained a percentage of 98.5% with very valid criteria, (3) The practicality of web google sites based on problem-based learning on microorganism material consists of teacher and student practicality tests. Practicality from teachers obtained a percentage of 93% with very practical criteria, and from students obtained a percentage of 87% with very practical criteria. Based on the results of this study, the interactive learning media website on microorganism material developed is very valid and very practical to use as learning media.

Keywords: interactive learning media, microorganisms, problem-based learning, web google sites.