PENGEMBANGAN BAHAN AJAR BERBASIS *HOTS* BERBANTUAN *GOOGLE SITES* PADA MATERI EKOSISTEM DAN PERUBAHAN LINGKUNGAN DI SMA NEGERI 1 SAWAN

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ABSTRAK

Penelitian pengembangan ini bertujuan untuk menghasilkan bahan ajar berbasis *Higher Order Thinking Skills* (*HOTS*) berbantuan *Google Sites* pada materi ekosistem dan perubahan lingkungan di SMA Negeri 1 Sawan. Penelitian ini menggunakan pendekatan *Research and Development* (*R&D*) dengan model *ADDIE*. Uji validitas dilakukan oleh ahli materi, ahli bahasa, dan ahli media, sedangkan uji kepraktisan dilakukan oleh guru Biologi dan siswa kelas X SMA Negeri 1 Sawan. Data dianalisis menggunakan teknik deskriptif kuantitatif. Hasil penelitian menunjukkan bahwa bahan ajar yang dikembangkan memiliki tingkat validitas sangat tinggi dengan nilai Koefisien Validitas Gregory (KVG) sebesar 1. Uji kepraktisan menunjukkan persentase sebesar 91,66% dari guru dan 90,34% dari siswa yang termasuk dalam kategori sangat praktis. Berdasarkan hasil tersebut, dapat disimpulkan bahwa bahan ajar berbasis *HOTS* berbantuan *Google Sites* valid, praktis, dan layak digunakan sebagai media pembelajaran Biologi yang mampu melatih keterampilan berpikir kritis siswa sesuai dengan tuntutan pembelajaran abad ke-21. Penggunaan bahan ajar ini diharapkan dapat membantu guru dalam menyajikan pembelajaran Biologi yang lebih interaktif dan kontekstual.

Kata kunci: Bahan Ajar, Ekosistem, *Google Sites*, *HOTS*, Perubahan Lingkungan.

DEVELOPMENT OF HOTS-BASED TEACHING MATERIALS USING GOOGLE SITES ON ECOSYSTEM AND ENVIRONMENTAL CHANGE TOPICS AT SMA NEGERI 1 SAWAN

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ABSTRACT

This development research aimed to produce Higher Order Thinking Skills (HOTS)-based teaching materials assisted by Google Sites on ecosystem and environmental change topics at SMA Negeri 1 Sawan. The study employed a Research and Development (R&D) approach using the ADDIE model. Validity testing was conducted by subject matter experts, language experts, and media experts, while practicality testing was carried out by Biology teachers and tenth-grade students of SMA Negeri 1 Sawan. The data were analyzed using descriptive quantitative techniques. The results showed that the developed teaching materials achieved a very high level of validity with a Gregory Validity Coefficient (GVC) value of 1. The practicality test results indicated percentages of 91.66% from teachers and 90.34% from students, both categorized as very practical. Based on these findings, it can be concluded that the HOTS-based teaching materials assisted by Google Sites are valid, practical, and feasible to be used as Biology learning media that can enhance students' critical thinking skills in accordance with the demands of 21st-century learning. The use of these teaching materials is expected to assist teachers in delivering more interactive and contextual Biology instruction.

Keywords: Ecosystem, Environmental Change, Google Sites, HOTS, Teaching Materials.