

**PENGEMBANGAN BUKU AJAR BIOLOGI BERBASIS PENDEKATAN
SAINTIFIK PADA MATERI SISTEM KORDINASI
DI KELAS XI IPA SMA**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui tingkat kelayakan Buku Ajar Biologi dengan pendekatan saintifik pada materi sistem kordinasi. Jenis penelitian yang digunakan adalah penelitian pengembangan (R&D) dengan model pengembangan produk 4-D. Model ini meliputi 4 tahap, yaitu: (1) define; (2) design; (3) develop; (4) disseminate. Penelitian ini dibatasi hingga tahap pengembangan (develop), yaitu hanya sampai tahap uji coba produk pada kelompok lapangan terbatas. Penelitian ini dimulai sejak bulan juli hingga September 2019 di SMA Negeri 9 Medan. Buku yang dikembangkan divalidasi oleh ahli materi, ahli pembelajaran, ahli desain grafis, guru, dan uji lapangan/siswa. Data tentang kualitas produk pengembangan ini dikumpulkan dengan angket, dan dengan teknik analisis data yaitu deskriptif kuantitatif dan kualitatif. Hasil penelitian menunjukkan bahwa rata-rata persentase penilaian oleh ahli materi sebesar 85% dengan kriteria “sangat layak”; ahli pembelajaran sebesar 87% dengan kriteria “sangat layak”; ahli desain grafis sebesar 86% dengan kriteria “sangat layak”; penilaian guru biologi sebesar 89% dengan kriteria “sangat layak”. Berdasarkan tanggapan mahasiswa melalui penilaian perorangan, kelompok kecil, dan terbatas yang merupakan siswa kls XI SMA yang telah mengambil mata pelajaran Biologi memiliki kategori baik hingga sangat baik untuk di gunakan dalam pembelajaran. Mengingat penelitian ini hanya di lakukan sampai uji coba lapangan terbatas, maka untuk mengetahui keefektifannya terhadap produk ini perlu di lakukan penelitian lebih lanjut.

Kata Kunci : Pengembangan Buku Ajar, Pendekatan saintifik, Sistem kordinasi

**DEVELOPMENT OF BIOLOGICAL TEACHING BOOKS BASED ON
APPROACH SCIENCE IN COORDINATION SYSTEM
MATERIALS IN CLASS XI HIGH SCHOOL**

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Abstract

This study aims to determine the level of eligibility of Biology Textbooks with a scientific approach to the coordination system material. This type of research is a research and development (R&D) with a 4-D product development model. This model includes 4 stages, namely: (1) define; (2) design; (3) develop; (4) disseminate. This research is limited to the development stage, that is only to the product trial phase in limited field groups. This research began in July until September 2019 at SMA Negeri 9 Medan. The book developed was validated by material experts, learning experts, graphic design experts, teachers, and field / student tests. Data about the quality of these development products was collected by a questionnaire, and by data analysis techniques namely quantitative and qualitative descriptive. The results showed that the average percentage of judgments by material experts was 85% with the criteria "very feasible"; learning experts by 87% with the criteria "very feasible"; graphic design experts by 86% with the criteria "very feasible"; biology teacher assessment by 89% with the criteria "very feasible". Based on the students' responses through individual, small group, and limited assessments which are students of class XI high school students who have taken Biology subjects have good to very good categories for use in learning. Considering that this research is only carried out until field trials are limited, then to find out its effectiveness in this product further research is needed.

Keywords: Development of Textbooks, Scientific Approach, Coordination System

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