

ABSTRAK

Erayana Munthe. NIM. 8236122011. Pengembangan Media Pembelajaran Berbasis Diferensiasi Berbantuan Google Sites Pada Mata Pelajaran IPA di SMP Dharma Bakti Lubuk Pakam. Tesis. Program Studi Teknologi Pendidikan Pascasarjana Universitas Negeri Medan, 2025.

Penelitian ini bertujuan untuk mengembangkan media pembelajaran berbasis diferensiasi berbantuan Google Sites pada mata pelajaran IPA di SMP Dharma Bakti Lubuk Pakam, sebagai solusi atas rendahnya hasil belajar peserta didik kelas VII pada topik Klasifikasi Makhluk Hidup dalam dua tahun ajaran terakhir. Masalah lainnya mencakup masih digunakannya metode pembelajaran konvensional yang belum mengakomodasi kebutuhan belajar peserta didik yang beragam, serta minimnya penggunaan media pembelajaran yang relevan dengan Kurikulum Merdeka. Penelitian ini menggunakan metode *Research and Development* (R&D) dengan model pengembangan ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Subjek penelitian adalah peserta didik kelas VII yang dipilih melalui teknik *cluster random sampling*, terdiri dari kelas kontrol (VII-1) dan kelas eksperimen (VII-2). Objek penelitian berupa materi "Klasifikasi Makhluk Hidup" pada mata pelajaran IPA. Teknik pengumpulan data dilakukan melalui observasi, angket, tes hasil belajar, dan dokumentasi. Analisis data dilakukan secara deskriptif kualitatif dan kuantitatif, termasuk analisis kelayakan media oleh ahli dan analisis efektivitas melalui uji perbedaan hasil belajar antar kelas. Hasil penelitian menunjukkan bahwa: (1) produk media pembelajaran berbasis diferensiasi berbantuan Google Sites berhasil dikembangkan dan sesuai dengan kebutuhan peserta didik; (2) hasil uji kelayakan oleh para ahli menyatakan media sangat layak digunakan dalam pembelajaran IPA; (3) hasil uji coba lapangan menunjukkan respon positif dari guru dan peserta didik terhadap media yang dikembangkan; dan (4) uji efektivitas menunjukkan adanya peningkatan signifikan pada hasil belajar peserta didik setelah menggunakan media tersebut. Dengan demikian, media pembelajaran berbasis diferensiasi berbantuan Google Sites terbukti layak dan efektif untuk meningkatkan hasil belajar IPA peserta didik kelas VII.

Kata Kunci: Pengembangan Media, Diferensiasi, Google Sites, IPA, Kurikulum Merdeka

ABSTRACT

Erayana Munthe. Student ID: 8236122011. *Development of Differentiation-Based Learning Media Assisted by Google Sites in IPA Subject. Thesis. Postgraduate Educational Technology Program of Universitas Negeri Medan, 2025.*

This study aims to develop a differentiated learning media assisted by Google Sites for the science subject at SMP Dharma Bakti Lubuk Pakam, as a solution to the low academic performance of seventh-grade students on the topic Classification of Living Things over the past two academic years. Other issues include the continued use of conventional teaching methods that do not accommodate students' diverse learning needs and the lack of relevant instructional media aligned with the Merdeka Curriculum. The research employed a Research and Development (R&D) method using the ADDIE model (Analysis, Design, Development, Implementation, Evaluation). The research subjects were seventh-grade students selected through cluster random sampling, consisting of a control class (VII-1) and an experimental class (VII-2). The object of the research was the science material Classification of Living Things. Data collection techniques included observation, questionnaires, learning outcome tests, and documentation. The data were analyzed using both qualitative descriptive and quantitative statistical methods, including media feasibility analysis by experts and effectiveness analysis through a comparison of student learning outcomes between classes. The results showed that: (1) the differentiated learning media assisted by Google Sites was successfully developed and met students' learning needs; (2) the media was deemed highly feasible for use in science learning based on expert validation; (3) field trials showed positive responses from both teachers and students; and (4) effectiveness testing indicated a significant improvement in students' learning outcomes after using the developed media. Therefore, the differentiated learning media assisted by Google Sites is considered feasible and effective for improving science learning outcomes among seventh-grade students.

Keywords: *Media Development, Differentiated Learning, Google Sites, Science Education, Merdeka Curriculum*