

ABSTRAK

PENGEMBANGAN MODUL AJAR PEMBELAJARAN BERDIFERENSIASI MATA PELAJARAN MATEMATIKA KELAS IV SEKOLAH DASAR MATERI LUAS DAN KELILING PERSEGI PANJANG

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Penelitian ini bertujuan untuk mengembangkan modul ajar berdiferensiasi pada mata pelajaran Matematika kelas IV SD dengan fokus pada materi luas dan keliling persegi panjang. Latar belakang penelitian ini berangkat dari rendahnya pemahaman siswa terhadap konsep matematika akibat penyampaian materi yang tidak mempertimbangkan keberagaman karakteristik siswa, seperti gaya belajar, minat, dan kesiapan belajar. Penelitian ini menggunakan metode Research and Development (R&D) dengan model pengembangan ADDIE yang terdiri dari lima tahap: analisis, desain, pengembangan, implementasi, dan evaluasi.

Produk yang dikembangkan berupa modul ajar berdiferensiasi yang sesuai dengan prinsip Kurikulum Merdeka. Validasi produk dilakukan oleh dosen ahli dan guru, serta diuji coba kepada siswa kelas IV di SD Negeri Jonggrangan. Teknik pengumpulan data dalam penelitian ini meliputi observasi, wawancara, kuesioner, serta tes pretest dan posttest. Teknik analisis data yang digunakan yaitu analisis kualitatif untuk data observasi, wawancara, dan kuesioner terbuka, serta analisis kuantitatif deskriptif untuk data hasil pretest dan posttest.

Hasil penelitian menunjukkan bahwa modul ajar berdiferensiasi yang dikembangkan memenuhi kriteria layak digunakan, menarik, bermakna, serta mampu meningkatkan hasil belajar siswa, yang ditunjukkan dengan adanya peningkatan skor dari pretest ke posttest. Modul ini memberikan alternatif bagi guru dalam merancang pembelajaran yang responsif terhadap kebutuhan belajar peserta didik yang beragam.

Kata kunci: pengembangan modul ajar, pembelajaran berdiferensiasi, matematika, luas dan keliling persegi panjang, Kurikulum Merdeka.

ABSTRACT

DEVELOPMENT OF A DIFFERENTIATED LEARNING TEACHING MODULE FOR MATHEMATICS GRADE IV ELEMENTARY SCHOOL MATERIAL ON AREA AND PERIPHERUM OF RECTANGLES

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This study aims to develop a differentiated teaching module for fourth-grade elementary school mathematics, focusing on the topic of area and perimeter of rectangles. The background of this research stems from the low level of students' understanding of mathematical concepts, which is caused by instructional delivery that does not consider the diversity of students' characteristics, such as learning styles, interests, and learning readiness. This research uses the Research and Development (R&D) method with the ADDIE development model, which consists of five stages: analysis, design, development, implementation, and evaluation.

The product developed is a differentiated teaching module aligned with the principles of the Merdeka Curriculum. The module was validated by expert lecturers and teachers and tested on fourth-grade students at SD Negeri Jonggrangan. Data collection techniques in this study included observation, interviews, questionnaires, as well as pretest and posttest assessments. The data analysis techniques used were qualitative analysis for observation, interview, and open-ended questionnaire data, and descriptive quantitative analysis for pretest and posttest results.

The research results show that the developed differentiated teaching module meets the criteria of being feasible, engaging, meaningful, and effective in improving student learning outcomes, as evidenced by the increase in scores from pretest to posttest. This module provides an alternative for teachers in designing learning that is responsive to the diverse learning needs of students.

Keywords: *teaching module development, differentiated instruction, mathematics, area and perimeter of rectangles, Merdeka Curriculum.*