

ABSTRAK

PENGEMBANGAN MODUL AJAR BERBASIS PROYEK MATERI MENGUBAH BENTUK ENERGI UNTUK MENGUATKAN DIMENSI BERNALAR KRITIS PESERTA DIDIK KELAS IV SD

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Penelitian ini dilatarbelakangi oleh kebutuhan guru akan sebuah modul ajar yang mampu menguatkan dimensi bernalar kritis peserta didik diantaranya adalah mengembangkan kemampuan berbasis proyek. Penelitian ini bertujuan untuk mengembangkan dan mendeskripsikan kualitas modul ajar kurikulum merdeka berbasis proyek pada materi mengubah energi untuk menguatkan dimensi bernalar kritis IPAS peserta didik kelas IV. Jenis penelitian yang digunakan adalah *Research and Development (R&D)* model ADDIE dengan tahapan, *Analyze, Design, Develop, Disseminate*. Penelitian ini menggunakan teknik pengumpulan data dengan wawancara, kuisioner, dan observasi. Validasi ini dilakukan oleh 3 ahli pendidikan dan wali kelas IV. Uji coba penelitian ini dilakukan bersama dengan 24 peserta didik kelas IV SDN 005 Batu Majang, Kec. Long bagun, Kab. Mahakam Ulu, Prov. Kalimantan Timur.

Hasil penelitian menunjukkan produk modul ajar mendapatkan nilai dan kategori: (1) RPP mendapatkan nilai rata-rata 3,49 masuk dalam kategori “Sangat Baik”; (2) LKPD mendapatkan nilai rata-rata 3,62 masuk dalam kategori “Sangat Baik”; (3) Media Pembelajaran mendapatkan nilai rata-rata 3,66 masuk dalam kategori “Sangat Baik”; (4) Bahan Ajar mendapatkan nilai rata-rata 3,77 masuk dalam kategori “Sangat Baik”; (5) Evaluasi mendapatkan nilai rata-rata 3,55 masuk dalam kategori “Sangat Baik”; (6) Kebahasaan mendapatkan nilai rata-rata 3,5 masuk dalam kategori “Sangat Baik”; dan (7) Dimensi bernalar kritis mendapatkan nilai rata-rata 3,77 masuk dalam kategori “Sangat Baik”. Menurut pendapat peserta didik, Modul ajar mampu meningkatkan pemahaman siswa dan menguatkan dimensi bernalar kritis.

Kata kunci: modul ajar berbasis proyek, bernalar kritis, kurikulum merdeka

ABSTRACT

**DEVELOPMENT OF A PROJECT-BASED LEARNING MODULE ON CHANGING
THE FORM OF ENERGY TO STRENGTHEN THE CRITICAL THINKING
DIMENSION OF GRADE IV ELEMENTARY**

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This research is motivated by the teacher's need for a teaching module that can strengthen students' critical reasoning dimensions, including developing project-based skills. This study aims to develop and describe the quality of the project-based independent curriculum teaching module on the material of changing energy to strengthen the critical reasoning dimension of IPAS of grade IV students.

The type of research used is Research and Development (R&D) ADDIE model with stages, Analyze, Design, Development, Implement, and Evaluate. This research uses data collection techniques with interviews, questionnaires, and observations. This validation was carried out by 3 education experts and grade IV teachers. This research trial was conducted with 24 fourth grade students of SDN 005 Batu Majang, Long bagun sub-district, Mahakam Ulu district, East Kalimantan. East Kalimantan.

The results showed that the teaching module product received scores and categories: (1) RPP received an average score of 3.49 in the "Very Good" category; (2) LKPD received an average score of 3.62 in the "Very Good" category; (3) Learning Media received an average score of 3.66 in the "Very Good" category; (4) Teaching Materials received an average score of 3.77 in the "Very Good" category; (5) Evaluation received an average score of 3.55 in the "Very Good" category; (6) Language received an average score of 3.5 in the "Very Good" category; and (7) Critical thinking dimension received an average score of 3.77 in the "Very Good" category. According to the learners' opinions, the teaching module is able to improve students' understanding and foster the character of critical reasoning dimensions.

Keywords: *project-based learning module, critical thinking, independent curriculum*