

## ABSTRAK

### **PENGEMBANGAN MODUL AJAR BERBASIS PROYEK PADA MATERI STRUKTUR DAN FUNGSI BAGIAN-BAGIAN TUMBUHAN UNTUK MENGUATKAN DIMENSI BERNALAR KRITIS SISWA KELAS IV SEKOLAH DASAR**

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Penelitian dilatarbelakangi oleh kesulitan yang dialami oleh guru pada saat pergantian kurikulum. Guru membutuhkan sebuah modul ajar berbasis proyek yang mampu mengembangkan karakter profil pelajar pancasila khususnya pada dimensi bernalar kritis. Maka dari itu, penelitian ini bertujuan untuk (1) Mendeskripsikan prosedur pengembangan Modul Ajar Berbasis Proyek pada Materi Struktur dan Fungsi Bagian-bagian Tumbuhan untuk Menguatkan Dimensi Bernalar Kritis Siswa Kelas IV; (2) Mengetahui kualitas Modul Ajar Berbasis Proyek pada Materi Struktur dan Fungsi Bagian-bagian Tumbuhan untuk Menguatkan Dimensi Bernalar Kritis Siswa Kelas IV.

Jenis penelitian adalah *Research and Development* (R&D) dengan menggunakan model ADDIE. Subjek penelitian adalah guru kelas IV SD Negeri Jongkang. Objek penelitian adalah pengembangan modul ajar berbasis proyek pada materi struktur dan fungsi bagian-bagian tumbuhan untuk menguatkan dimensi bernalar kritis kelas IV SD Negeri Jongkang. Teknik pengumpulan data diperoleh dengan wawancara, kuesioner, dan tes. Analisis data penelitian menggunakan analisis kuantitatif dan kualitatif.

Hasil validasi modul ajar mendapatkan rata-rata skor ahli materi IPAS yaitu sebesar 92 dengan kategori “sangat layak”, sedangkan rata-rata penilaian guru kelas IV yaitu sebesar 98 dengan kategori “sangat layak”. Hasil tersebut menunjukkan bahwa, modul ajar layak digunakan. Hasil belajar siswa sebelum diterapkan modul ajar mendapatkan hasil nilai rata-rata 49,5, sedangkan setelah diterapkan modul ajar ini mendapatkan nilai rata-rata 84,5.

**Kata kunci:** modul ajar berbasis proyek, IPA

**ABSTRACT**

**DEVELOPMENT OF PROJECT-BASED TEACHING MODULES ON MATERIALS  
STRUCTURE AND FUNCTION OF PLANT PARTS FOR  
STRENGTHENING STUDENTS' CRITICAL REASONING DIMENSIONS CLASS IV  
PRIMARY SCHOOL**

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*The research was motivated by the difficulties experienced by teachers when changing the curriculum. Teachers need a project-based teaching module that is able to develop the character profile of Pancasila students, especially in the critical reasoning dimension. Therefore, this research aims to (1) Describe the procedures for developing a Project-Based Teaching Module on the Structure and Function of Plant Parts to Strengthen the Critical Reasoning Dimensions of Class IV Students; (2) Knowing the quality of Project-Based Teaching Modules on the Structure and Function of Plant Parts to Strengthen the Critical Reasoning Dimensions of Class IV Students.*

*The type of research is Research and Development (R&D) using the ADDIE model. The research subject was the fourth grade teacher at Jongkang State Elementary School. The object of the research is the development of a project-based teaching module on the structure and function of plant parts to strengthen the critical reasoning dimensions of class IV of Jongkang State Elementary School. Data collection techniques were obtained by interviews, questionnaires and tests. Research data analysis uses quantitative and qualitative analysis*

*The results of the validation of the teaching module obtained an average score for science material experts of 92 in the "strongly agree" category, while the average grade IV teacher assessment was 98 in the "strongly agree" category. These results indicate that the teaching module is suitable for use. Student learning outcomes before the teaching module was implemented received an average score of 49.5, while after the teaching module was implemented they received an average score of 84.5.*

*Keywords: project-based teaching module, science*