

ABSTRAK

PENGEMBANGAN MODUL AJAR IPAS BERBASIS PjBL PADA MATERI TUMBUHAN DAN FUNGSINYA UNTUK MENGEMBANGKAN KARAKTER KEMANDIRIAN SISWA SD KELAS IV

Theresia Indah Septalia
Universitas Sanata Dharma
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Perbaikan mutu pendidikan harus tetap diupayakan, karena pendidikan berperan penting dalam menciptakan karakter manusia yang berkualitas. Melalui pengembangan Modul Ajar yang dirancang berbasis Project Based Learning termotivasi mengembangkan karakter kemandirian dan tanggungjawab. Tujuan penelitian ini adalah untuk mendiskripsikan prosedur modul ajar berbasis Project Based Learning serta mengetahui kualitas modul ajar pada materi tumbuhan dan fungsinya untuk mengembangkan karakter kemandirian siswa kelas IV. Penelitian ini didasarkan pada pengembangan modul ajar dengan metode R&D dengan model ADDIE (analyze, design, implementate, dan evaluate). Penelitian ini juga menggunakan 5 validator yang terdiri dari 2 dosen ahli dan 3 guru kelas IV SD yang sudah bersertifikasi. Selain itu adanya 15 siswa kelas IV yang berpartisipasi dalam uji coba modul ajar. Hasil penelitian menunjukkan bahwa modul ajar mendapatkan rata-rata 3,72 dengan kriteria “sangat baik”. Hasil *pretest* dan *posttest* sangat penting dalam penelitian ini. Pada *pretest* rata-rata perolehan nilai siswa hanya 59,3, sedangkan pada *posttest* menjadi 89,3. Dalam uji coba karakter kemandirian siswa, pada kuesioner awal rata-rata 2,21, sedangkan pada kuesioner akhir rata-rata menjadi 3,81, berarti ada peningkatan karakter kemandirian siswa sebesar 73%.

Kata Kunci: Modul Ajar, Model Project Based Learnig, Karakter Kemandirian

ABSTRACT

**DEVELOPMENT OF A SCIENCE TEACHING MODULE BASED ON PjBL ON THE
TOPIC OF PLANTS AND THEIR FUNCTIONS TO DEVELOP THE CHARACTER
OF INDEPENDENCE IN CLAS IV PRIMARY STUDENTS**

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Sanata Dharma University
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Improving the quality of education must continue to be pursued, as education plays an important role in shaping high-quality human character. Through the development of a teaching module designed based on Project-Based Learning, students are motivated to develop independence and a sense of responsibility. The objective of this study is to describe the procedures for developing a Project-Based Learning teaching module and to determine the quality of the module on the topic of "plants and their functions" in order to foster the character of independence among fourth-grade students. This study is based on the development of a teaching module using the R&D method with the ADDIE model (Analyze, Design, Implement, and Evaluate). The study also involved five validators consisting of two expert lecturers and three certified fourth-grade elementary school teachers. Additionally, 15 fourth-grade students participated in the trial of the teaching module. The results of the study showed that the module received an average score of 3.72, categorized as "very good." The *pretest* and *posttest* results were significant in this study. In the *pretest*, the students' average score was only 59.3, while in the *posttest*, it increased to 89.3 a 30-point improvement. In the trial related to students' independence character, the initial questionnaire showed an average score of 2.21, while the final questionnaire showed an average of 3.81. This indicates a 73% improvement in students' independence character.

Keywords: Teaching Module, Project-Based Learning Model, Character of Independence