

ABSTRAK

PENGEMBANGAN MODUL AJAR PROYEK LINTAS MATA PELAJARAN BERBASIS ETNOBOTANI PADA MATERI KEANEKARAGAMAN MAKHLUK HIDUP

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Berdasarkan hasil wawancara dengan guru biologi di SMA BOPKRI 2, SMA De Britto, SMAN 9 Yogyakarta, SMAN 1 Depok, dan SMA Pangudi Luhur Sedayu, ditemukan beberapa permasalahan dalam proses pembelajaran. Guru mengalami kesulitan dalam menciptakan pembelajaran yang bermakna, menyatakan bahwa integrasi budaya dan kearifan lokal dalam pembelajaran masih belum banyak diterapkan, serta menilai bahwa topik keanekaragaman makhluk hidup terlalu luas dan abstrak untuk dipahami peserta didik jika hanya disampaikan melalui teks. Kondisi tersebut menunjukkan perlunya pembelajaran proyek yang lintas mata pelajaran dan mampu menghadirkan pengalaman belajar kontekstual dengan mengaitkan materi biologi, budaya lokal, dan lingkungan sekitar peserta didik. Penelitian ini bertujuan untuk: (1) menghasilkan produk berupa modul ajar PjBL lintas mata pelajaran berbasis etnobotani minuman tradisional yang mendukung terciptanya pembelajaran bermakna pada materi keanekaragaman makhluk hidup, dan (2) mengevaluasi kelayakan serta kepraktisan modul ajar tersebut. Penelitian ini merupakan penelitian pengembangan (R&D) dengan model 4-D. Pengumpulan data dilakukan melalui wawancara analisis kebutuhan, kuesioner validasi, dan kuesioner kepraktisan.

Penelitian ini menghasilkan: (1) produk yang dikembangkan berupa modul ajar PjBL lintas mata pelajaran berbasis etnobotani minuman tradisional dengan mengintegrasikan pembelajaran bermakna pada materi keanekaragaman makhluk hidup. Modul ini mengintegrasikan konteks lokal dalam proyek pembelajaran yang mengakomodasi prinsip *joyful, mindful, dan meaningful learning*. (2) Modul ajar PjBL berbasis etnobotani minuman tradisional memiliki tingkat kelayakan yang tinggi, ditunjukkan oleh rerata nilai Aiken's V sebesar 0,91, serta tingkat kepraktisan yang sangat tinggi dengan persentase sebesar 85%.

Kata kunci: Pembelajaran bermakna, *Project based learning*, Etnobotani, Lintas mata pelajaran, Keanekaragaman Makhluk Hidup.

ABSTRACT

***DEVELOPMENT OF A CROSS-SUBJECT PROJECT TEACHING MODULE
BASED ON ETHNOBOTY ON THE MATERIAL OF DIVERSITY OF
LIVING THINGS***

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Biology Education

Based on interviews with biology teachers at BOPKRI 2 High School, De Britto High School, SMAN 9 Yogyakarta, SMAN 1 Depok, and Pangudi Luhur Sedayu High School, several problems were found in the learning process. Teachers experienced difficulties in creating meaningful learning, stating that the integration of culture and local wisdom in learning was still not widely applied, and assessing that the topic of biodiversity was too broad and abstract for students to understand if it was only conveyed through text. These conditions indicate the need for cross-curricular project-based learning that can provide contextual learning experiences by linking biology material, local culture, and the students' surrounding environment. This study aims to: (1) produce a product in the form of an interdisciplinary PjBL teaching module based on the ethnobotany of traditional beverages that supports the creation of meaningful learning on the subject of biodiversity, and (2) evaluate the feasibility and practicality of the teaching module. This research is a research and development (R&D) study using the 4-D model. Data collection was conducted through needs analysis interviews, validation questionnaires, and practicality questionnaires.

*This study produced: (1) a developed product in the form of an interdisciplinary PjBL teaching module based on the ethnobotany of traditional beverages by integrating meaningful learning on the subject of biodiversity. This module integrates the local context into learning projects that accommodate the principles of joyful, mindful, and meaningful learning. (2) The PjBL teaching module based on the ethnobotany of traditional beverages has a high level of feasibility, as indicated by an average Aiken's *V* score of 0.91, as well as a very high level of practicality with a percentage of 85%.*

Keywords: *Meaningful learning, Project-based learning, Ethnobotany, Cross-curricular, Biodiversity.*