

ABSTRAK

Febrina Suci Ramadhoni, Pengembangan Buku Panduan Lapang Serangga Penyerbuk Berbasis Riset pada Tanaman Sayuran di Kecamatan Dolat Rayat. Tesis. Program Pascasarjana Universitas Negeri Medan. 2022.

Penelitian ini bertujuan untuk memproduksi produk buku panduan lapang serangga penyerbuk pada tanaman sayuran yang cocok digunakan pada tingkat sarjana (S1). Penelitian ini merupakan penelitian pengembangan dengan model pengembangan Thiagarajan yang terdiri dari 4 tahap yaitu: *define, design, develop* dan *disseminate*. Buku panduan lapang kemudian divalidasi berdasarkan tiga kriteria ahli yaitu materi/isi, desain pembelajaran, desain *layout* serta tanggapan dosen pengampu matakuliah dan mahasiswa. Selanjutnya diadakan uji efektivitas buku dengan memakai uji N-Gain. Rata-rata hasil validasi produk oleh ahli materi sebesar 76% (baik), ahli desain pembelajaran 73% (baik), ahli layout sebesar 91% (sangat baik), tanggapan dosen pengampu matakuliah sebesar 88,25% (sangat baik). Berdasarkan uji perorangan rata-rata yang diperoleh 86% (sangat baik), uji kelompok kecil diperoleh 80% (sangat baik), dan uji lapang terbatas diperoleh 87% (sangat baik). Rata-rata hasil uji efektifitas buku dengan menggunakan uji N-Gain diperoleh 72.24% pada kelas eksperimen dengan kategori cukup efektif sedangkan pada kelas kontrol diperoleh 52.22% dalam kategori kurang efektif. Hasil uji t hasil belajar diperoleh nilai signifikansi sebesar $(0,00 < 0,05)$ dengan t_{count} 7,160. Jadi, dapat disimpulkan bahwa buku panduan lapang dapat meningkatkan efektifitas hasil belajar kognitif mahasiswa.

Kata Kunci: *Buku Panduan Lapang, Model Pengembangan Thiagarajan, Penyerbukan.*

ABSTRACT

Febrina Suci Ramadhoni, The Development of Research-Based Guidebook for Pollinating Insects on The Vegetable Crops at Kecamatan Dolat Rayat.

Thesis. Postgraduate Program of Universitas Negeri Medan. 2022.

The aim of this study was to produce a Research-based guidebook for pollinating insects on the vegetable crops that can be used on The Bachelor Level (S1). Type of this research was Research and Development (RnD) according to Thiagarajan's Model which consisted of 4 stages: define, design, develop, and disseminate. The field guide book was then validated based on three expert criteria, namely material/content, learning design, layout design as well as responses from lecturers and product trials was conducted by students. Furthermore, the effectiveness test was conducted by using the N-Gain test. The results of material expert validation on the feasibility of the material obtained an average of 76% (Good), for the results of learning expert validation on the feasibility of the learning obtained an average of 73% (Good) , the graphic assessment by design experts obtained an average of 91% (very good) and for the lecture's response obtained an average of 88.25% (very good). Individual trials with an average of 95.2% in the "Very Good" category, small group trials with an average of 91% in the "Very Good" category, and limited field trials with an average of 87% in the "Very Good" category. The result of N-Gain Test an average of 72.24% declared quite effective in experiment class and for the control class was obtained an average of 52.22% declared less effective. The t test result of pretest and posttest obtained a significant value ($0,00 < 0,05$) with t_{count} is 7,160. it can be concluded that the book was developed effectively to increase the student achievement in cognitive level .

Keywords: *Research-based Guidebook, Development model of Thiagarajan, Pollination.*

