ABSTRAK

LAILLY RAMADHANI. Pengembangan Buku Ajar Serangga Penyerbuk di Taman Berbasis Riset. Tesis. Program Pascasarjana Universitas Negeri Medan. 2019.

Penelitian ini bertujuan untuk mengetahui kualitas dan kelayakan pengembangan buku ajar serangga penyerbuk di taman berbasis riset. Subjek dalam penelitian ini adalah (1) dua orang dosen ahli materi; (2) satu orang dosen ahli desain *layout book*; (3) satu orang dosen ahli desain pembelajaran; (4) satu orang dosen pengampu matakuliah Ekologi Hewan dan (5) mahasiswa Pendidikan Biologi/ Biologi Universitas Negeri Medan. Penelitian ini merupakan penelitian pengembangan dengan model 4-D modifikasi dengan 3 tahap yaitu *define, design,* dan *development*. Hasil penelitian menunjukkan bahwa (1) validasi konten/materi dinilai berdasarkan kelengkapan materi, keakuratan materi, kemutakhiran materi, penyajian materi dan kebahasaan memiliki nilai rata-rata 92,8% (sangat baik); (2) validasi desain *layout* buku ajar dinilai dengan beberapa aspek yaitu format buku, tata letak sampul, tipografi sampul, tata letak isi, tipografi isi, dan ilustrasi / gambar isi buku memiliki nilai rata-rata yaitu 86,3% (sangat baik); (3) validasi desain pembelajaran dinilai berdasarkan aspek cakupan materi, penyajian materi, komunikatif, lugas, penggunaan istilah, simbol dan ikon, efek pembelajaran, ketersediaan latihan, dan penilaiaan produk memiliki nilai rata-rata 83,7% (baik); (4) tanggapan dosen pengampu matakuliah Ekologi Hewan, buku ini sangat bagus dengan persentase 88% dan (5) tanggapan mahasiswa menunjukkan bahwa buku ajar ini baik, tanggapan uji coba perorangan yaitu 83,3%, 82% untuk uji coba kelompok kecil, 86,2% untuk uji coba kelompok terbatas. Sehingga dapat disimpulkan bahwa buku ajar berbasis riset yang dikembangkan telah layak dan dapat digunakan sebagai bahan untuk memperoleh informasi lain selain buku pedoman mahasiswa.

Kata kunci: *pengembangan buku ajar, serangga penyerbuk, ekologi hewan*

ABSTRACT

LAILLY RAMADHANI. The Development of Textbook on Insect Pollinators in Parks Based on a Research. Thesis. Postgraduate School of Universitas Negeri Medan. 2019.

The aims of this study were to determine the quality and feasibility of textbook on insect pollinators in parks based on a research. The subject of this study were (1) two experts for material; (2) one expert for book layout design; (3) one expert for learning design; (4) one lecturer of animal ecology course; (5) The students of the Department of Biology, Universitas Negeri Medan. This study employed a 4-D research and development modified with 3 main stages, namely define, design and development concecutive stages. The results showed that (1) Content/materials validation result was 92.8% (excellent), they are assessed based on their completeness, accuracy, update, presentation and linguistics side; (2) Layout design quality measured based on several aspects, such as textbook format, cover's layout, cover's typography, content's layout, content's typography, and illustration, the result was scored 86,3% (excellent); (3) Learning design quality result was score 83,7% (very good), measured according to material's coverage, material presentation, communicative, straightforwardness, use of terms, symbols and icons, and learning effect aspects; (4)The assessment of the lecturer of Animal Ecology, this textbook is excellent with percentage 88% and (5) The result of students assessment showed that this textbook was good which was the value for individual assessment is 83,3%, 82% for small group assessment, 86,2 % for limited group assessment. Thus, it could be concluded that the textbook based on research developed has been feasible and could be used as the source of obtaining other information instead of student's guide book.

Keyword: *textbook development*, *insect pollinators, animal ecology*