

ABSTRAK

Wijaya, Dimas Mahendra (2022), Pengembangan *E-module* Biologi Berbasis *Guided Discovery Learning* Pada Topik Ekosistem dan Lingkungan untuk Meningkatkan Hasil Belajar Siswa SMA. Tesis, Pendidikan IPA, Program Pascasarjana, Universitas Pendidikan Ganesha.

Tesis ini telah diperiksa dan disetujui oleh Pembimbing I: Prof. Dr. Ida Bagus Putu Arnyana, M. Si dan Pembimbing II: Dr. Desak Made Citrawathi, M. Kes.

Kata kunci: *E-module*, *Guided Discovery Learning*, dan hasil belajar

Penelitian ini bertujuan untuk mengembangkan produk berupa *e-module* pembelajaran biologi berbasis *guided discovery learning* yang valid, praktis, dan efektif. Penelitian ini termasuk ke dalam penelitian pengembangan (*Research and Development*) dengan rancangan penelitian pengembangan mengadaptasi model pengembangan ADDIE. Tahapan model pengembangan ADDIE meliputi (1) *Analyze* (analisis), (2) *Design* (desain/perancangan), (3) *Development* (pengembangan), (4) *Implementation* (implementasi/penerapan) dan (5) *Evaluation* (evaluasi/umpan balik). Tahap uji validasi melibatkan ahli materi dan praktisi guru, ahli media, dan ahli bahasa. Tahap uji kepraktisan melibatkan praktisi guru dan siswa. Tahap uji efektivitas melibatkan siswa kelas X IPA 1 sebanyak 36 orang. Adapun hasil penelitian pengembangan ini adalah (1) *e-module* yang dikembangkan memperoleh kriteria valid berdasarkan validitas konten dan konstruk; (2) produk yang dikembangkan memiliki kriteria praktis berdasarkan angket respon guru dan peserta didik; (3) *e-module* pembelajaran biologi berbasis *guided discovery learning* efektif digunakan untuk meningkatkan hasil belajar siswa SMA, hal ini dibuktikan dengan diperolehnya nilai signifikansi sebesar 0,0001 ($p < 0,05$) dan ketuntasan belajar klasikal sebesar 94% dengan kriteria sangat baik.

ABSTRACT

Wijaya, Dimas Mahendra (2021), Development of a Biology *E-module* Based on Guided Discovery Learning on Ecosystem and Environmental Topics to Improve High School Student Learning Outcomes. Thesis, Science Education, Post Graduate Program, Ganesha University of Education.

This thesis had been approved and verified by, Supervisor I: Prof. Dr. Ida Bagus Putu Arnyana, M. Si and Supervisor II: Dr. Desak Made Citrawathi, M. Kes.

Keywords: E-module, Guided Discovery Learning, and Learning outcomes

This study aims to develop a product in the form of an *e-module* of biology learning based on guided discovery learning that is valid, practical, and effective. This research is part of development research, with a development research design that adapts the ADDIE development model. The stages of the ADDIE development model include (1) Analyze, (2) Design, (3) Development, (4) Implementation, and (5) Evaluation. The validation test phase involves material experts and teacher practitioners, media experts, and linguists. The practicality test phase involves teacher practitioners and students. The activity test phase involved 36 students from class X IPA 1. The results of development research are (1) the developed *e-module* obtained valid criteria based on content and construct validity; (2) the product developed has practical criteria based on the teacher and student response questionnaires; (3) *e-module* biology learning based on guided discovery learning effective used to improve student learning outcomes, this is evidenced by obtaining a significance value of 0.0001 ($p < 0.05$) and classical learning completeness of 94% with very good criteria.

