

**PENGEMBANGAN LEMBAR KERJA PESERTA DIDIK BERBASIS
DISCOVERY LEARNING PADA MATERI EKOLOGI UNTUK PESERTA
DIDIK KELAS X SMA**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui desain, valid dan kepraktisan lembar kerja peserta didik elektronik berbasis *discovery learning* sebagai bahan ajar materi ekologi kelas X MIPA. Model penelitian yang digunakan yakni menggunakan model ADDIE. Tempat penelitian dilaksanakan di SMAS Laboratorium Undiksha. Penelitian pengembangan ini menggunakan angket validasi dan angket kepraktisan. Uji coba dilakukan dengan uji validitas dan uji kepraktisan. Uji validitas dan kepraktisan menggunakan teknik deskriptif. Uji validitas yakni dilakukan oleh ahli materi dan media. Uji kepraktisan dilakukan guru dan siswa dengan uji perorangan dilakukan oleh 1 guru biologi di SMAS Laboratorium Undiksha serta uji perorangan melibatkan 3 orang peserta didik dan uji kelompok kecil melibatkan 12 orang peserta didik X MIPA. Hasil penelitian menunjukkan bahwa: (1) desain lembar kerja peserta didik desainnya dengan dikembangkan dengan menggunakan model ADDIE. (2) Uji validitas lembar kerja peserta didik berbasis *Discovery learning* memperoleh presentase sebesar 86,2% dengan kriteria sangat valid. (3) Uji kepraktisan lembar kerja peserta didik berbasis *Discovery learning* memperoleh presentase sebesar 84,8% dengan kriteria praktis. Berdasarkan hasil tersebut lembar kerja peserta didik elektronik sangat valid dan praktis digunakan sebagai bahan ajar pada materi ekologi untuk peserta didik kelas X di SMA dan lembar kerja peserta didik elektronik berbasis *discovery learning* pada materi ekologi dapat digunakan sebagai alternative baru dalam bahan ajar di sekolah.

Kata kunci : Lembar kerja peserta didik elektronik, *Discovery learning*, model ADDIE

**DEVELOPMENT OF EC STUDENT WORKSHEET BASED *DISCOVERY*
LEARNING ON ECOLOGY MATERIAL FOR CLASS X SMA STUDENTS**

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ABSTRACT

This study aims to determine the design, validity and practicality of electronic student worksheets based on Discovery learning as teaching materials for class X MIPA ecology. The research model used is the ADDIE model. The place of research was carried out at the Undiksha Laboratory High School. This development research uses a validation questionnaire and a practicality questionnaire. The trial was carried out with validity and practicality tests. Test the validity and practicality using descriptive techniques. The validity test is carried out by material and media experts. The practicality test was carried out by teachers and students with an individual test conducted by 1 biology teacher at SMAS Laboratorium Undiksha and an individual test involving 3 learners and a small group test involving 12 learners of class X Mathematics and Natural Sciences. The results showed that: (1) the design of the student worksheet was developed using the ADDIE model. (2) The test of the validity of the student work sheet based on Discovery learning obtained a percentage of 86.2% with very feasible criteria. (3) The practicality test of Discovery learning-based student work sheets obtained a percentage of 84.8% with practical criteria. Based on these results, electronic student worksheets are very feasible and practical to be used as teaching materials on ecological materials for class X students at SMAS Laboratorium Undiksha and electronic student worksheets based on Discovery learning on ecological materials can be used as new alternatives in teaching materials in schools.

Keywords: electronic student worksheet, Discovery learning, ADDIE model