

**PENGEMBANGAN E-MODUL BERBASIS *PROBLEM BASED LEARNING*
PADA MATA PELAJARAN BIOLOGI KELAS X SEMESTER GENAP DI
SMA LAB UNDIKSHA TAHUN PELAJARAN 2019/2020**

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ABSTRAK

Penelitian ini bertujuan untuk (1) mendeskripsikan rancang bangun E-Modul berbasis problem based learning pada mata pelajaran Biologi kelas X, dan (2) mendeskripsikan hasil validitas E-Modul berbasis problem based learning pada mata pelajaran Biologi kelas X. Subjek penelitian yaitu 1 ahli mata pelajaran, 1 ahli desain pembelajaran, 1 ahli media pembelajaran, 3 siswa untuk uji perorangan, dan 6 siswa untuk uji kelompok kecil. Metode yang digunakan untuk mengumpulkan data dalam penelitian ini yaitu observasi, wawancara, dan kuesioner. Teknik analisis data yang digunakan pada penelitian ini adalah analisis deskriptif kualitatif, dan analisis deskriptif kuantitatif. Hasil penelitian yaitu (1) tahapan pengembangan E-modul berbasis problem based learning pada mata pelajaran Biologi kelas X dengan menggunakan model ADDIE, meliputi lima tahapan yaitu (a) analisis (analysis), (b) desain (design), (c) pengembangan (development), (d) implementasi (implementation), (e) evaluasi (evaluation); (2) hasil validasi yaitu (a) hasil validasi mata pelajaran 90,6% (sangat baik), (b) hasil validasi desain pembelajaran 97,1% (sangat baik), (c) ahli media pembelajaran 92,5% (sangat baik), (d) hasil uji coba perorangan 95% (sangat baik), dan (e) uji coba kelompok kecil 95% (sangat baik).

Kata-kata kunci: pengembangan, E-modul, *problem based learning*

ABSTRACT

This study aimed to (1) describe the E-Module design based on problem-based learning in grade 10 Biology subject, and (2) describe the result of E-Module validity based on problem-based learning in the grade 10 Biology subject. The subjects of this research were one subject expert, one learning design expert, one learning media expert, three students for the individual test, and six students for the small group test. The method used to collect the data was the observation, interview, and questionnaire. The data analysis technique used in this study was qualitative descriptive analysis and quantitative descriptive analysis. The result of the study are (1) the stages of developing an E-module based on problem-based learning in grade 10 Biology subject using the ADDIE model, including five points, such as (a) analysis, (b) design, (c) development, (d) implementation, (e) evaluation; (2) the validity results are (a) the result of subject validation is 90,6% (excellent), (b) the result of learning design validation is 97,1% (excellent), (c) the result of learning media expert is 92,5% (excellent), (d) the result of the individual test is 95% (excellent), and (e) the result of small groups test is 95% (excellent).

Keywords: Development, E-module, Problem based learning