

**PENGEMBANGAN E-MODUL BERBASIS *PROBLEM BASED LEARNING*
PADA MATERI PECAHAN KELAS IV DI SD NO 2 SEMBUNG
KECAMATAN MENGWI KABUPATEN BADUNG**

Oleh

**NI Nyoman Dewi Anggreni, NIM 1811031249
Program Studi Pendidikan Guru Sekolah Dasar**

ABSTRAK

Penelitian ini bertujuan untuk mendeskripsikan rancang bangun dan mendeskripsikan validitas media pembelajaran e-modul berbasis *problem based learning* muatan Matematika materi bentuk-bentuk pecahan dan hubungan diantaranya menurut para ahli dan uji coba produk. Penelitian ini merupakan penelitian dan pengembangan (Research and Development). Pengujian dilakukan oleh tiga orang ahli dengan meliputi ahli isi pembelajaran, ahli desain pembelajaran, ahli media pembelajaran dan siswa sebagai subjek uji coba produk yang telah dikembangkan dengan meliputi uji coba perorangan dan uji coba kelompok kecil. Jenis penelitian yang dilakukan adalah penelitian pengembangan dengan model ADDIE (*Analyze, Design, Development, Implementation, Evaluation*) sebagai langkah-langkah sistematis dalam pengembangan produk. Metode pengumpulan data yang digunakan kuesioner atau angket. Analisis data yang digunakan yaitu teknik analisis deskriptif kuantitatif dan deskriptif kualitatif. Media pembelajaran e-modul berbasis *problem based learning* muatan Matematika dengan materi bentuk-bentuk pecahan dan hubungan diantaranya dinyatakan valid dengan: (a) hasil uji rancang bangun sudah memperoleh hasil bahwa media e-modul pembelajaran berbasis *problem based learning* yang dikembangkan sesuai dengan pengembangan model pengembangan ADDIE. (b) hasil *review* ahli isi pembelajaran memperoleh presentase (91,66%) dengan kualifikasi sangat baik, (c) hasil *review* ahli desain pembelajaran memperoleh presentase (93,18%) dengan kualifikasi sangat baik, (d) hasil *review* ahli media pembelajaran memperoleh presentase (93,18%) dengan kualifikasi sangat baik, (e) hasil uji coba perorangan memperoleh presentase (95,45%) dengan memperoleh kualifikasi sangat baik, dan (f) hasil uji coba kelompok kecil memperoleh presentase (93,43%) dengan kualifikasi sangat baik. Berdasarkan hasil *review* para ahli dan hasil subjek uji coba perorangan dan uji coba kelompok kecil, dapat disimpulkan bahwa media pembelajaran e-modul berbasis *problem based learning* adalah layak digunakan dalam pembelajaran muatan Matematika materi kegiatan bentuk-bentuk pecahan dan hubungan diantaranya di kelas IV SD.

Kata-kata kunci : Pengembangan, E-modul, *Problem Based Learning*, Matematika

ABSTRACT

This study aims to describe the design and to describe the validity of the e-module learning media based on problem based learning on the content of Mathematics, the material of fractional forms and the relationship between them according to experts and product trials. This research is a research and development (Research and Development). The test was carried out by three experts including learning content experts, learning design experts, learning media experts and students as test subjects for products that have been developed including individual trials and small group trials. The type of research carried out is development research using the ADDIE model (Analyze, Design, Development, Implementation, Evaluation) as systematic steps in product development. The data collection method used was a questionnaire or questionnaire. The data analysis used is descriptive quantitative and qualitative descriptive analysis techniques. The e-module learning media based on problem based learning Mathematics content with the material of fractional forms and the relationship between them is declared valid with: (a) the results of the design test have obtained the results that the problem based learning e-module media developed in accordance with the model development development of ADDIE. (b) the results of the expert review of learning content obtained a percentage (91.66%) with very good qualifications, (c) the results of the review of the learning design experts obtained a percentage (93.18%) with very good qualifications, (d) the results of the review learning media experts get a percentage (93.18%) with very good qualifications, (e) individual trial results get a percentage (95.45%) with very good qualifications, and (f) small group test results get a percentage (93,43%) with very good qualifications. Based on the results of expert reviews and the results of individual test subjects and small group trials, it can be concluded that the problem-based learning e-module learning media is feasible to use in learning Mathematics content, material activities, fractional forms and the relationship between them in grade IV SD.

Keywords: Development, E-module, Problem Based Learning, Mathematics