

**PENGEMBANGAN *E-MODUL* BERBASIS *PROBLEM BASED LEARNING* (PBL)
PADA MUATAN PELAJARAN IPAS KELAS IV SD MUTIARA SINGARAJA
TAHUN PELAJARAN 2024/2025**

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ABSTRAK

Penelitian ini dilakukan dengan tujuan untuk: (1) Mendeskripsikan proses dan rancang bangun pengembangan *e-modul* berbasis *problem based learning*, (2) Mendeskripsikan validitas pengembangan *e-modul* berbasis *problem based learning*, dan (3) Mengetahui efektivitas *e-modul* berbasis *problem based learning* pada muatan pelajaran IPAS siswa kelas IV Sekolah Dasar Mutiara Singaraja Tahun Pelajaran 2024/2025. Penelitian pengembangan ini menggunakan model ADDIE. Pengumpulan data dilakukan dengan metode wawancara, pencatatan dokumen, kuesioner, dan tes. Teknik analisis data menggunakan teknik analisis deskriptif kuantitatif, deskriptif kualitatif, dan analisis statistik inferensial uji-t. Subjek penelitian ini adalah ahli isi pembelajaran, ahli desain pembelajaran, ahli media pembelajaran, 3 orang siswa sebagai uji coba perorangan, 9 orang siswa sebagai uji coba kelompok kecil, dan 20 orang siswa untuk uji coba lapangan. Hasil penelitian ini adalah (1) *E-modul* dikembangkan dengan model ADDIE yang terdiri dari 5 tahapan (analisis, desain, pengembangan, implementasi, dan evaluasi). (2) Validitas *e-modul* dari hasil uji ahli isi pembelajaran sebesar 92,30%, uji ahli desain pembelajaran sebesar 91,11%, uji ahli media pembelajaran sebesar 90,58%, uji coba perorangan sebesar 94,86%, uji coba kelompok kecil sebesar 94,01%, dan uji coba lapangan sebesar 92,53%, yang keseluruhan persentase skornya dikualifikasikan sangat baik. (3) Efektivitas *e-modul* dilihat dari uji-t yang menunjukkan terdapat perbedaan yang signifikan dari hasil belajar siswa antara sebelum dan sesudah menggunakan *e-modul* berbasis *problem based learning* pada muatan pelajaran IPAS dengan rata-rata *pre-test* 57 dan *post-test* 75,25 dengan hasil t_{hitung} uji-t sebesar -9,462 yang lebih besar dari t_{tabel} yaitu 2,024. Maka dapat disimpulkan bahwa *e-modul* efektif digunakan untuk meningkatkan hasil belajar IPAS siswa kelas IV Sekolah Dasar Mutiara Singaraja.

Kata Kunci: Pengembangan, *E-Modul*, *Problem Based Learning*, ADDIE, IPAS.

**DEVELOPMENT OF PROBLEM-BASED LEARNING (PBL) E-MODULES IN
IPAS CLASS IV SD MUTIARA SINGARAJA ACADEMIC YEAR 2024/2025**

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ABSTRACT

This research was conducted with the aim of: (1) Describing the process and design of the development of problem-based learning e-modules, (2) Describing the validity of the development of problem-based learning e-modules, and (3) Determining the effectiveness of problem-based learning-based e-modules in the content of science lessons for grade IV students of Mutiara Singaraja Elementary School for the 2024/2025 Academic Year. This development research uses the ADDIE model. Data collection was carried out by interview, document recording, questionnaire, and test methods. The data analysis technique uses quantitative descriptive analysis, qualitative descriptive, and t-test inferential statistical analysis. The subjects of this study are learning content experts, learning design experts, learning media experts, 3 students as individual trials, 9 students as small group trials, and 20 students for field trials. The results of this study are (1) E-modules are developed with the ADDIE model which consists of 5 stages (analysis, design, development, implementation, and evaluation). (2) The validity of the e-module from the results of the learning content expert test was 92.30%, the learning design expert test was 91.11%, the learning media expert test was 90.58%, the individual trial was 94.86%, the small group trial was 94.01%, and the field trial was 92.53%, whose overall score percentage was very well qualified. (3) The effectiveness of the e-module is seen from the t-test which shows that there is a significant difference in student learning outcomes between before and after using the problem-based learning e-module in the science lesson content with an average of pre-test 57 and post-test 75.25 with a t-test calculation result of -9.462 which is greater than the t_{table} that is 2,024. Therefore, it can be concluded that the e-module is effectively used to improve the learning outcomes of IPAS students in grade IV of Mutiara Singaraja Elementary School.

Keywords: Development, E-Module, Problem Based Learning, ADDIE, IPAS.