

**PENGEMBANGAN *E-BOOK* BERBASIS *PROBLEM BASED LEARNING*  
PADA MATA PELAJARAN IPAS UNTUK SISWA KELAS IV  
DI SD NEGERI 5 KAYUPUTIH MELAKA**

**Oleh**

**CINDY FRUTH NOVI SITUMORANG, NIM 2011021024**

**Program Studi Teknologi Pendidikan**

**ABSTRAK**

Tujuan dari penelitian ini adalah untuk (1) mendeskripsikan proses rancang bangun *e-book* berbasis *problem based learning*, (2) mendeskripsikan validitas *e-book* berbasis *problem based learning*, dan (3) mengetahui efektivitas *e-book* berbasis *problem based learning* pada mata pelajaran IPAS untuk siswa kelas IV di SD Negeri 5 Kayuputih Melaka. Jenis penelitian ini adalah penelitian pengembangan dengan model pengembangan ADDIE. Jenis data dalam penelitian ini adalah data kualitatif dan kuantitatif. Metode pengumpulan data penelitian menggunakan metode observasi, wawancara, kuesioner, dan tes. Teknik analisis data yang digunakan adalah Teknik analisis deskriptif kualitatif, kuantitatif, dan analisis statistika inferensial uji-t. Hasil penelitian (1) proses pengembangan *e-book* berbasis *problem based learning* pada mata pelajaran IPAS meliputi 5 tahapan pengembangan yaitu: tahap analisis (*analysis*), tahap perancangan (*design*), tahap pengembangan (*development*), tahap implementasi (*implementation*), dan tahap evaluasi (*evaluation*). (2) Pengembangan *e-book* berbasis *problem based learning* pada mata pelajaran IPAS valid berdasarkan : (a) hasil review ahli isi pembelajaran dengan kualifikasi sangat baik (96,36%), (b) hasil review ahli desain pembelajaran dengan kualifikasi sangat baik (92%), (c) hasil review ahli media pembelajaran dengan kualifikasi sangat baik (93,85%), (d) hasil uji coba perorangan dengan kualifikasi sangat baik (95,83%), dan (e) hasil uji coba kelompok kecil dengan kualifikasi sangat baik (98,33%). Efektivitas produk pengembangan *e-book* berbasis *problem based learning* dilihat dari hasil hitung uji-t yang menunjukkan terdapat perbedaan signifikan antara sebelum dan sesudah menggunakan *e-book* berbasis *problem based learning*. Secara umum hasil penelitian *e-book* berbasis *problem based learning* pada mata pelajaran IPAS valid dengan kualitas sangat baik dan layak digunakan dalam proses pembelajaran IPAS siswa kelas IV di SD Negeri 5 Kayuputih Melaka.

**Kata-kata Kunci :** *e-book*, IPAS, *problem based learning*

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*By*

**CINDY FRUTH NOVI SITUMORANG, NIM 2011021024**

**Program Studi Teknologi Pendidikan**

***ABSTRACT***

*The aims of this research are to (1) describe the process of designing e-books based on problem based learning, (2) describe the validity of e-books based on problem based learning, and (3) determine the effectiveness of e-books based on problem based learning in subjects Science for class IV students at SD Negeri 5 Kayuputih Melaka. This type of research is development research with the ADDIE development model. The types of data in this research are qualitative and quantitative data. Research data collection methods use observation, interviews, questionnaires and tests. The data analysis techniques used are qualitative, quantitative descriptive analysis techniques and inferential t-test statistical analysis. Research results (1) the process of developing e-books based on problem based learning in science subjects includes 5 development stages, namely: analysis stage (analysis), design stage (design), development stage (development), implementation stage (implementation), and stage evaluation (evaluation). (2) The development of e-books based on problem based learning in science and science subjects is valid based on: (a) the results of the review of learning content experts with very good qualifications (96.36%), (b) the results of the review of learning design experts with very good qualifications ( 92%), (c) results of review by learning media experts with very good qualifications (93.85%), (d) results of individual trials with very good qualifications (95.83%), and (e) results of small group trials with very good qualifications (98.33%). The effectiveness of e-book development products based on problem based learning can be seen from the results of t-test calculations which show that there is a significant difference between before and after using e-books based on problem based learning. In general, the results of e-book research based on problem based learning in science and science subjects are valid with very good quality and suitable for use in the science and science learning process for class IV students at SD Negeri 5 Kayuputih Melaka.*

***Keywords*** : *e-book, IPAS, problem based learning*