

## ABSTRAK

**RHINDRA PAHLAWAN. NIM. 8176141008. Pengembangan Buku Penuntun Praktikum Kimia Dasar Inovatif Sesuai dengan Kurikulum KKNI. Tesis: Program Pascasarjana, Universitas Negeri Medan, 2019.**

Penelitian ini bertujuan untuk mendapatkan produk buku penuntun praktikum kimia dasar inovatif untuk program studi agroteknologi sesuai kurikulum KKNI. Penelitian ini merupakan penelitian pengembangan mengacu pada model ADDIE (*Analysis, Design, Development, Implementation, dan Evaluation*). Buku penuntun praktikum disusun mengikuti langkah model pembelajaran berbasis *Problem Based Learning*. Lokasi penelitian di Laboratorium Kimia, Fakultas Pertanian, Program Studi Agroteknologi, Universitas Medan Area. Buku penuntun praktikum dikembangkan berdasarkan Standar kelayakan BSNP yang menetapkan 4 aspek kelayakan buku yaitu, kelayakan isi, kelayakan penyajian, kelayakan bahasa dan kelayakan kegrafikan. Hasil penelitian diperoleh bahwa validasi buku penuntun praktikum kimia dasar yang telah dikembangkan secara umum menunjukkan rata-rata nilai sebesar 3.90 artinya sangat valid serta tidak perlu direvisi dan sudah sangat layak untuk digunakan. Hasil uji coba buku penuntun praktikum yang dikembangkan diperoleh hasil belajar praktikan dengan rata-rata N-gain sebesar 0,75 yang dikategorikan tinggi. Hasil keterampilan praktikan rata-rata nilai kelas sebesar 93,52 yang dikategorikan sangat baik. Hasil penilaian buku penuntun praktikum yang dilakukan oleh praktikan setelah menggunakan buku penuntun praktikum kimia yang telah dikembangkan memiliki persentase 88,10% dengan kategori sangat baik. Hasil respon mahasiswa terhadap kegiatan praktikum menggunakan buku penuntun kimia dasar yang telah dikembangkan memiliki persentase 88,33% yang dikategorikan sangat baik.

*Kata kunci: Buku penuntun praktikum, Model ADDIE, Penelitian pengembangan, Problem based learning*

## ABSTRACT

**RHINDRA PAHLAWAN. NIM. 8176141008. Development of Chemistry Practical Guidebook Innovative on General Chemistry according to Indonesian National Qualifications Framework Curriculum (KKNI). Thesis: Postgraduate Program, Universitas Negeri Medan, 2019.**

This study aims to obtain an innovative basic chemistry lab guide product for agrotechnology study programs based on the KKNI curriculum. This research was a development research referring to the ADDIE model (Analysis, Design, Development, Implementation, and Evaluation). Practical guidebooks were arranged following the steps of the learning model based on Problem Based Learning. Research locations in the Chemistry Laboratory, Faculty of Agriculture, Agrotechnology Study Program, Universitas Medan Area. The practical guidebook was developed based on the BSNP feasibility standard which specifies 4 aspects of book feasibility, namely, the feasibility of content, the feasibility of presentation, the feasibility of language and the appropriateness of graphics. The results showed that the validation of basic chemistry practical guidebooks that had been developed in general showed an average value of 3.90 meaning very valid and did not need to be revised and was very feasible to use. The trial result of the practical guidebook developed were obtained by the students learning outcomes have an N-gain average of 0.75 which was categorized as high. The results of the practical skills average grade value of 93.52 which was categorized very good. The results of the practical guideline assessment conducted by the practitioner after using a chemical practicum guidebook that has been developed has a percentage of 88.10% with a very good category. The results of student responses to practical activities using a basic chemistry guidebook that has been developed has a percentage of 88.33% which was categorized very good.

Keywords: ADDIE model, Development research, Practical guidebook, Problem based Learning