ABSTRAK

JUSMASARI HARAHAP. NIM. 8166142006. Pengembangan Penuntun dan Kit Praktikum Kimia Inovatif Bebasis PBL (*Problem Based Learning*) Sesuai Kurikulum 2013 Kelas XII SMA/MA Semester Genap. Tesis. Program Pascasarjana, Universitas Negeri Medan, 2018.

Penelitian ini bertujuan untuk mengetahui kelayakan penuntun praktikum kimia yang digunakan di sekolah dengan standar BSNP, memperoleh penuntun praktikum kimia inovatif berbasis PBL sesuai kulrikulum 2013 kelas XII SMA/MA semester genap valid sesuai standar BSNP, memperoleh kit praktikum kimia yang valid sesuai standar Kemendikbud, mengetahui keterampilan proses siswa dan sikap siswa dalam praktikum menggunakan penuntun dan kit praktikum kimia yang dikembangkan, mengetahui respon siswa dan keefektifan penggunaan penuntun dan kit praktikum kimia yang dikembangkan terhadap hasil belajar siswa. Adapun sampel dalam penelitian ini tiga penuntun praktikum kimia yang digunakan di sekolah, dua orang guru kimia, dan dua orang dosen, dan 30 siswa kelas XII IPA 1 SMA N.1 Bilah Hilir. Penelitian ini merupakan penelitian pengembangan mengacu pada model ADDIE. Teknik analisis data yang digunakan yakni deskrptif kualitatif. Instrumen yang digunakan dalam penelitian ini yakni lembar analisis, validasi penuntun dan kit praktikum, lembar observasi keterampilan proses dan sikap siswa, angket respon dan tes hasil belajar siswa terhadap penuntun dan kit hasil pengembangan. Hasil penelitian diperoleh bahwa penuntun praktikum yang digunakan di sekolah layak digunakan namun ada beberapa komponen yang perlu dikembangkan, penuntun praktikum yang dikembangkan valid sesuai standar BSNP, kit praktikum yang dikembangkan valid sesuai standar Kemendikbud, keterampilan proses siswa dan sikap siswa dalam praktikum menggunakan penuntun dan kit praktikum kimia yang dikembangkan masing-masing 86,85% dan 82,50 % dalam kategori sangat baik, respon siswa terhadap penuntun dan kit praktikum kimia yang dikembangkan 81,37% dalam kategori sangat baik, penuntun dan kit praktikum kimia yang dikembangkan efektif terhadap hasil belajar siswa.

Kata kunci: penuntun praktikum, kit praktikum, penelitian dan pengembangan, *Problem Based Learning* (PBL), kurikulum 2013

ABSTRACT

JUSMASARI HARAHAP. NIM. 8166142006. Development of Guidelines and Kit for Innovative Base Chemistry Practicum PBL (*Problem Based Learning*) In Accordance with 2013 Class XII Curriculum Even Semester High School / MA. Thesis. Postgraduate Program, Medan State University, 2018.

This study aims to determine the feasibility of the chemical practicum guide used in schools with BSNP standards, obtain PBL-based innovative chemistry guideline according to the 2013 curriculum in class XII SMA / MA even semester valid according to BSNP standards, obtain a valid chemical practicum kit according to the Ministry of Education and Culture standards, knowing student process skills and attitudes of students in the practicum using the chemistry guide and practicum kit developed, knowing the students' response and the effectiveness of the use of guides and chemistry practicum kits developed on student learning outcomes. The sample in this study were three chemical practicum guides that were used in schools, two chemistry teachers, and two lecturers, and 30 students in class XII IPA 1 SMA N.1 Downstream. This research is a development research referring to the ADDIE model. Data analysis techniques used are qualitative descriptive. The instruments used in this study are analysis sheets, guide validation and practicum kits, observation sheets of process and student attitudes skills, response questionnaires and tests of student learning outcomes on guides and development kits. The results showed that the practicum guide used in schools was suitable for use but there were several components that needed to be developed, practicum guides developed valid according to BSNP standards, practicum kits developed valid according to the Ministry of Education and Culture standards, student process skills and student attitudes in practicum using guides and kits chemistry practicum developed respectively 86.85% and 82.50% in the very good category, student responses to guides and chemistry practicum kits developed 81.37% in very good categories, chemical guideline and practicum kit developed effectively against results student learning.

Keywords: practicum guide, practicum kit, research and development, *Problem Based Learning* (PBL), 2013 curriculum