ABSTRACT

Henni Fitriani: **Development Innovative And Interactive Teaching Materials Through Saintific Approach in Solution and Colloid Instruction.** Thesis. Medan: Chemistry Education Studies Program, Postgraduate School of State University of Medan, 2015

This study aims to know (1) Whether solution teaching material in general chemistry written summary of lectures II need to revised, (2) Whether solution teaching material of development outcome have been filled advisability standard refers BSNP (3) Conception of general chemistry lecturers to solution teaching material have been developed, (4) Conception of students as user to solution teaching material have been developed. The type of this research is including research and development. Subjects of study were general chemistry written summary of lectures II solution subject. Meanwhile, the sample used in this study consisted of 20 students IV semester of State University of Medan and 3 general chemistry lecturers of state university of Medan. For selection of the sample is using purposive sampling technique. The results were analyzed obtain (1) Analyzed general chemistry written summary of lectures II refers BSNP (Education National Standard Corporation) obtained that average value is 3,13 it means suitable to used, however need to be increased, (2) Analyzed teaching material of development outcome refers BSNP (Education National Standard Corporation) obtained that average value is 3,88 it means very suitable to used, (3) Conception of general chemistry lecturers to teaching material of development outcome obtained average value is 3,84 it means very good and very suitable to used, (4) conception of students to teaching material of development outcome obtained average value is 3,36 it means very good and very suitable to used.

Keywords: *Innovative and interactive teaching material, research and development (R & D), Solution and Colloid.*

ABSTRAK

Henni Fitriani: **Pengembangan Bahan Ajar Inovatif dan Interaktif Melalui Pendekatan Sainstifik pada Pengajaran Larutan dan Koloid.** Tesis. Medan: Program Studi Pendidikan Kimia, Pascasarjana Universitas Negeri Medan, 2015

Penelitian ini bertujuan untuk mengetahui (1) Apakah bahan ajar larutan pada diktat kimia umum II perlu adanya revisi, (2) Apakah bahan ajar larutan hasil pengembangan telah memenuhi standar kelayakan merujuk BSNP (3) Tanggapan dosen pengampu kimia umum terhadap bahan ajar larutan yang telah dikembangkan, (4) Tanggapan mahasiswa sebagai pengguna terhadap bahan ajar larutan yang telah dikembangkan. Jenis penelitian termasuk penelitian dan pengembangan (*research and development*). Subjek penelitian adalah diktat kimia umum II pada pokok bahasan larutan. Adapun, sampel yang digunakan pada penelitian ini terdiri dari 20 orang mahasiswa semester IV Universitas negeri medan dan 3 orang dosen kimia umum Universitas Negeri Medan. Pemilihan sampel dalam penelitian menggunakan teknik *purposive sampling*. Hasil analisis manunjukkan (1) Analisis diktat kimia umum II merujuk BSNP (Badan Standar Nasional Pendidikan) menunjukkan bahwa nilai rata-rata sebesar 3,13 artinya layak dipergunakan, namun masih perlu adanya penambahan, (2) Analisis bahan ajar hasil pengembangan merujuk BSNP (Badan Standar Nasional Pendidikan) menunjukkan bahwa nilai rata-rata sebesar 3,88 artinya sangat layak dipergunakan, (3) Tanggapan dosen pengampu kimia umum terhadap bahan ajar hasil pengembangan menunjukkan nilai rata-rata sebesar 3,84 artinya sangat baik dan sangat layak dipergunakan, (4) Tanggapan mahasiswa terhadap bahan ajar hasil pengembangan menunjukkan nilai rata-rata sebesar 3,36 artinya sangat baik dan sangat layak dipergunakan.

Kata Kunci: *Bahan Ajar Inovatif dan Interaktif, Penelitian dan Pengembangan (R & D), Larutan dan Koloid.*