ABSTRAK

Erdiana Gultom: **Pengembangan Bahan Ajar Inovatif dan Interaktif Melalui Pendekatan Saintifik Pada Pengajaran Termokimia**. Tesis. Medan. Program Studi Pendidikan Kimia, Pasca Sarjana Universitas Negeri Medan, 2015

Penelitian ini bertujuan untuk (1) mengetahui apakah bahan ajar termokimia pada kimia umum 1 perlu untuk direvisi, (2) mengetahui apakah bahan ajar termokimia hasil pengembangan telah memenuhi standar merujuk standar BSNP, (3) mengetahui tanggapan dosen pengampu mata kuliah umum terhadap bahan ajar termokimia yang dikembangkan, (4) mengetahui tanggapan mahasiswa jurusan kimia terhadap bahan ajar termokimia yang telah dikembangkan. Jenis penelitian ini adalah penelitian dan pengembangan (*research and development*). Subjek penelitian ini adalah bahan ajar kimia umum 1 pokok bahasan termokimia. Sampel dalam penelitian ini adalah 20 orang mahasiswa jurusan kimia semester 4 Universitas Negeri Medan dan 3 orang dosen pengampu kimia umum. Penentuan sampel dalam penelitian ini menggunakan teknik purposive sampling. Hasil analisis menunjukkan (1)Hasil analisis bahan ajar kimia umum pokok bahasan termokimia menunjukkan bahwa bahan ajar tersebut merujuk pada standar BSNP (Badan Standar Nasional Pendidikan) dengan nilai rata-rata 2,87 artinya layak untuk digunakan namun perlu untuk dikembangkan, (2) Hasil analisis bahan ajar termokimia yang dikembangkan merujuk pada standar BSNP dengan nilai rata-rata 3,63 artinya sangat layak untuk dipergunakan, (3) Tanggapan dosen pengampu kimia umum terhadap bahan ajar termokimia yang telah dikembangkan diperoleh rata-rata 3,66 menunjukkan bahan ajar sangat layak untuk digunakan, (4) Tanggapan mahasiswa jurusan kimia terhadap bahan ajar termokimia yang telah dikembangkan diperoleh rata-rata 3,31 menunjukkan bahan ajar sangat layak untuk dipergunakan.

Kata Kunci: *Penelitian dan Pengembangan (R & D), Termokimia, Pendekatan Saintifik*

ABSTRAK

Erdiana Gultom**: Development Innovative And Interactive Teaching Materials Through Saintific Approach in Thermochemistry**. Thesis. Medan: Chemistry Education Studies Program, Postgraduate School of State University of Medan, 2015

This study aims to (1) Whether thermochemistry teaching material in general chemistry written summary of lectures II need to revised, (2) Whether thermochemistry teaching material of development outcome have been filled advisability standard refers BSNP (3) Conception of general chemistry lecturers to thermochemistry teaching material have been developed, (4) Conception of students as user to thermochemistry 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 2,87 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 3,63 it means very suitable to used, (3) Conception of general chemistry lecturers to teaching material of development outcome obtained average value is 3,66 it means very good and very suitable to used, (4) conception of students to teaching material of development outcome obtained average value is 3,31 it means very good and very suitable to used.

Keywords: Research and Development (R & D), Thermochemistry, Scientific Approach