ABSTRAK

Selly Aprilia Nisa, NIM 4183131001 (2022). Pengembangan Media *Chemic (Chemistry Comic)* Berbasis *Problem Based Learning* Pada Materi Ikatan Kimia Untuk Siswa Kelas X.

Penggunaan media pembelajaran yang menarik pada materi ikatan kimia dapat meningkatkan minat belajar siswa, salah satunya yaitu media *chemic* berbasis *problem based learning*. Penelitian ini merupakan penelitian pengembangan yang bertujuan untuk mengetahui kelayakan media *chemic* berbasis *problem based learning* pada materi ikatan kimia untuk siswa kelas X berdasarkan standar BSNP. Pada penelitian ini digunakan model pengembangan ADDIE yang dimodifikasi dimana hanya dilakukan tahap analisis *(analysis*), desain (*design*), pengembangan (*development*) dan evaluasi (*evaluations*). Penelitian ini dilaksanakan di Jurusan Kimia Universitas Negeri Medan, SMA Negeri 1 Secanggang dan SMA Swasta Bintang Langkat. Kelayakan media dilihat melalui angket kelayakan berdasarkan standar BSNP dengan skala *likert* 1 sampai 5. Validitas media *chemic* didapatkan dari hasil validasi dosen dan guru, sedangkan penilaian responden terhadap media chemic didapatkan dari hasil penilaian guru, mahasiswa, dan siswa. Hasil penelitian yang diperoleh menunjukkan bahwa media *chemic* yang dikembangkan sudah valid atau layak digunakan. Hal ini dapat dilihat dari data hasil validasi yang ditinjau dari aspek isi, kelayakan penyajian, kelayakan bahasa, kelayakan kegrafikan dan penilaian *problem based learning* berturut-turut memperoleh persentase sebesar 80,83%; 82,50%; 94,38%; 82,19% dan 82,14% sehingga diperoleh rata-rata persentase sebesar 82,00% yang termasuk dalam kategori sangat tinggi. Hasil penilaian responden terhadap media *chemic* ditinjau berrdasarkan aspek tampilan, materi dan manfaat yang berturut-turut memperoleh persentase sebesar 88,96%; 86,73%; dan 86,67% dengan persentase rata-rata sebesar 87,6% yang termasuk dalam kategori sangat tinggi. Berdasarkan hasil validasi ahli dan penilaian responden dapat disimpulkan bahwa media *chemic* ini sudah layak untuk digunakan dalam pembelajaran ikatan kimia.

Kata kunci: penelitian pengembangan, media *chemic*, *problem based learning*, dan ikatan kimia.

ABSTRACT

Selly Aprilia Nisa, NIM 4183131001 (2022). Development of Chemic Media (Chemistry Comic) Based on Problem Based Learning on Chemical Bond Materials for Class X Students.

The use of interesting learning media on chemical bonding material can increase student interest in learning, one of which is chemic media based on problem based learning. This research is a development research that aims to determine the feasibility of chemic media based on problem based learning on chemical bonding material for class X students based on BSNP standards. In this research, a modified ADDIE development model was used where only the analysis, design, development and evaluation stages were carried out. This research was conducted at the Department of Chemistry State University of Medan, SMAN 1 Secanggang and SMAS Bintang Langkat. The feasibility of the media is seen through a feasibility questionnaire based on the BSNP standard with a Likert scale of 1 to 5. The validity of the chemic media is obtained from the results of the validation of lecturers and teachers, while the respondents' assessment of chemic media is obtained from the results of the assessments of teachers, students, and students. The results obtained indicate that the chemical media developed is valid or feasible to use. This can be seen from the validation data in terms of content, presentation feasibility, language feasibility, graphic feasibility and problem based learning assessment, respectively, obtaining a percentage of 80.83%; 82.50%; 94.38%; 82.19% and 82.14% so that an average percentage of 82.00% is obtained which is included in the very high category. The results of respondents' assessments of chemic media were reviewed based on aspects of appearance, material and benefits which respectively obtained a percentage of 88.96%; 86.73%; and 86.67% with an average percentage of 87.6% which is included in the very high category. Based on the results of expert validation and respondent's assessment, it can be concluded that this chemic media is suitable for use in chemical bonding studies.

Keyword: development research, chemic media, problem based learning, and chemical bonding.