

**PENGEMBANGAN MEDIA PEMBELAJARAN INTERAKTIF “E-CHEM”
(EXPERIMENT OF CHEMISTRY) UNTUK SMA/MA KELAS XI
MATERI LARUTAN ASAM-BASA DAN SISTEM KOLOID**

**Oleh
Astuti
10303249004**

Pembimbing : Rr. Lis Permana Sari, M.Si

ABSTRAK

Penelitian ini merupakan penelitian pengembangan dalam bidang pembelajaran kimia. Tujuan penelitian ini adalah untuk mengembangkan media pembelajaran interaktif “E-Chem” (*Experiment Of Chemistry*) untuk SMA/MA kelas XI materi larutan asam-basa dan sistem koloid dalam bentuk CD (*Compact Disc*) dan untuk mengetahui kualitas media pembelajaran yang telah disusun berdasarkan penilaian 5 orang guru Kimia SMA/MA (*reviewer*).

Penelitian ini merupakan penelitian pengembangan yang menggunakan model prosedural. Prosedur penelitian pengembangan ini terdiri dari 3 tahap yaitu tahap 1, tahap 2, dan tahap 3. Instrumen penelitian terdiri dari beberapa aspek dan kriteria tertentu. Masukan dan saran dari ahli media, ahli materi dan *peer reviewer* digunakan untuk validasi produk penelitian pengembangan ini. Penilaian dilakukan oleh 5 orang guru Kimia SMA/MA sebagai *reviewer* untuk mengetahui kualitas media pembelajaran yang telah disusun.

Produk penelitian ini berupa CD media pembelajaran interaktif “E-Chem” (*Experiment Of Chemistry*) untuk SMA/MA kelas XI materi larutan asam-basa. Berdasarkan penilaian 5 orang guru Kimia SMA/MA, media pembelajaran yang telah disusun mempunyai kualitas Baik (B) dengan skor rata-rata sebesar 119,8 dari skor ideal sebesar 121,8. Skor tersebut apabila dinyatakan dalam persen keidealan sebesar 82,6%, sehingga media pembelajaran “E-Chem” ini layak digunakan sebagai sumber belajar mandiri peserta didik.

Kata kunci : *pengembangan, media pembelajaran, asam-basa dan sistem koloid*

THE DEVELOPMENT OF INTERACTIVE LEARNING MEDIA “E-CHEM” (EXPERIMENT OF CHEMISTRY) FOR SENIOR HIGH SCHOOL OF XI GRADE CONCERNING THE SUBJECT OF ACID – BASE SOLUTION AND COLLOID SYSTEM

**Written by :
Astuti
10303249004**

Supervisor : Rr. Lis Permana Sari, M.Si

ABSTRACT

This research is a development of research in learning chemistry. The objectives of the research are to develop the interactive “*E-Chem*” (Experiment Of Chemistry) learning media for Senior High School of XI grade concerning the subject of acid-base solution and colloid system in the form of CD (Compact Disc), as well as to know the quality of the learning media that has been composed based on the evaluation of 5 Senior High School Chemistry teachers (reviewer).

This research used a procedural model. Development procedure consisted of three activity of step one, step two, and step three. The instruments of this research consisted of certain aspects and criteria. Suggestions from media experts, material experts and peer reviewer were used to validate the research product. Evaluation was conducted by 5 Senior High School Chemistry teachers as reviewers to know the quality of the composed learning media.

The product of the research is an interactive “*E-Chem*” (Experiment Of Chemistry) learning media for Senior High School of XI grade concerning the subject of acid-base solution and colloid system in the form of CD. Based on the review of the 5 teachers, the composed learning media has Good quality with average score 119.8 of the ideal score, namely 121.8. If stated in ideal percentage the score is 82.6%, therefore, it can be concluded that the “*E-Chem*” learning media is appropriate to be used as an independent learning source for students.

Key words : *development, learning media, acid-base and colloid system*