THE DEVELOPMENT OF INNOVATIVE LEARNING MATERIAL OF CHEMICAL EQUILIBRIUM WITH ACTIVE LEARNING AND MULTIMEDIA

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ABSTRACT

The development of innovative learning material of chemical equilibrium with active learning and multimedia is explained. The study is aimed to obtain good and standard learning material on the teaching of chemical equilibrium to senior high school students. The study is conducted through enrichment of chemical equilibrium topics followed by the development of learning media in video form to integrate a relevant material on each chemistry topics on chemical equilibrium. The results showed that the learning subject of chemical equilibrium has been developed well. Standardization of the material and learning material have been carried out by make questionnaire and the lectures are agree with developed learning materials with respond (3.60), students in SMAN 1 Sidikalang with responds (3.60), students in SMAN 1 Berastagi with responds (3.71), and students in SMAN 1 Perbaungan with responds (3.53). The total average of the respond is (3.58) that is means learning material is valid and good. The learning material set in e-book. The development of learning material have been standard and can use as learning material of chemical equilibrium as topic in Chemistry Subject in Second Grade in Senior High School to motivate the student to study chemistry.

Keyword: Learning material, e-book, senior high school students, chemical equilibrium