

**THE DEVELOPMENT OF INNOVATIVE AND INTERACTIVE
CHEMISTRY LEARNING MATERIAL ON THE
TEACHING OF CHEMICAL EQUILIBRIUM**

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ABSTRACT

The development of innovative and interactive learning material on the teaching of chemical equilibrium is explained. The study is aimed to obtain good and standard learning material on the teaching of chemical equilibrium to university 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 (3.62), students bilingual chemistry 2011 with responds (3.50), students bilingual chemistry 2012 with responds (3.70), and student bilingual chemistry 2013 with responds (3.60). The total average of the respond is 3.67 that means learning material is valid and good. The learning material set in e-book and the media is set in a CD to make it easy to use in learning process in offline system. The developed of learning material have been standard and can use as learning material on the teaching of chemical equilibrium as topic in General Chemistry II motivate the student to study chemistry.

Keyword: Learning material, e-book, university students, chemical equilibrium