

# THE DEVELOPMENT OF INNOVATIVE LEARNING MODULE ON TEACHING OF SALT HYDROLYSIS BASED ON CURRICULUM 2013

**Bernike Firmayanti Aruan (Reg.Number : 4103332012)**

## ABSTRACT

The development of Innovative Learning Module on Teaching of Salt Hydrolysis Based on Curriculum 2013 content is explained. The study is aimed to develop good quality chemistry learning module for SHS/MA students that meet the criteria of curriculum 2013 content standard. The study is conducted to develop innovative high school chemistry learning module for grade XI semester 2 with the certain chemistry topic such as salt hydrolysis, to standarize the innovative chemistry learning module on teaching of salt hydrolysis based on BNSP standard, and to know the effectivity of innovative chemistry learning module to improve student's achievement. The developed standard chemistry learning module on teaching of salt hydrolysis consist of 4 sub-discussion topic, they are: properties of salt hydrolysis, Hydrolysis constant and hydrolysis degree, the pH of salt that hydrolyzed, and salt hydrolysis in daily life. The chemistry learning module on teaching of salt hydrolysis have been developed an it meet the criteria of curriculum 2013 content standard. To standarize the module the researcher make questionnaire that related to BSNP, where as the respondents are expert chemistry lecturer with respond (3.75), Chemistry teacher of three schools target with respond (3.72), and students in SMAN 1 Percut Sei Tuan (3.34). The respondents gave positive opinion to develop innovative chemistry learning module (3.62), and they are agreed with the performance of the module which has meet the criteria of curriculum 2013 content standard and the module is good. The total average of student's achievement of three schools target in pretest for experiment class from high group ( $46.5 \pm 4.18$ ) and low group ( $26.83 \pm 7.71$ ) and for control class from high group ( $51.8 \pm 2.7$ ) and low group ( $34.5 \pm 8.13$ ); total average of student's achievement in posttest 1 for experiment class from high group ( $86 \pm 5.63$ ) and low group ( $80 \pm 4.73$ ), and for control from high group ( $79 \pm 4.74$ ) and low group ( $74.5 \pm 5.3$ ); and the total average of student's achievement in posttest 2 for Experiment class from high group ( $85.5 \pm 4.61$ ) and low group ( $79.83 \pm 5.17$ ), and for control class from high group ( $73.5 \pm 4.93$ ) and low group ( $70.33 \pm 3.92$ ) And innovative chemistry learning on teaching of salt hydrolysis based on curriculum is effective to improve student's achievement with the result of percentage in high group of experiment class (99.4219%) is higher than high group of control class (92.8454%) and in low group of experiment class (97.5155 %) is higher than low group of control class (92.216 %).