

## THE DEVELOPMENT OF INNOVATIVE PRACTICAL GUIDE ON SALT HYDROLYSIS TO INCREASE STUDENT'S ACHIEVEMENT AND PROCESS SKILLS

Indri M. Simaremare (ID 4153332012)

### ABSTRACT

The development of innovative practical guide on salt hydrolysis to increase student's achievement and process skills is explained in this research. The research is aimed to know the student's achievement and process skills with used the chemistry practical guide and innovative practical guide. The population in this research are all the practical guide used in SMAN 21 Medan, all of chemistry lecturers who teach general chemistry for at least 5 years in UNIMED, all of chemistry teachers 11<sup>th</sup> grade science and have received certification, and all of students 11<sup>th</sup> grade science in SMAN 21 Medan. All of students 11<sup>th</sup> grade science in SMAN 21 Medan are consisted of four classes and sample taken as purposive sampling are two classes would be control class and experiment class. The control class applied the chemistry practical guide and experiment class applied the innovative practical guide. Each class are consisted from 30 students. The instrument that used in research are consisted of instrument test and instrument non test. Instrument test is specification test, multiple choice are consisted 16 valid questions and reliable (0.840). Instrument non test are consisted assessment sheet of BSNP and observation sheet of process skills and the character of process skills and cooperative attitude that has been validated. Based on test data requirement, results has showed that pretest and posttest value of control class and experiment has been normal distributed and homogeneous. Hypothesis test with significant level 0.05 to increased student's achievement has been got  $t_{count} > t_{table}$ , are  $6.802 > 2.0021$  is meant  $H_a$  accepted that student's achievement that has been used innovative practical guide higher than chemistry practical guide in school. So also with student's process skills has been got  $3.11 > 2.00210021$  is meant  $H_a$  accepted that student's process skills that has been used innovative practical guide higher than used chemistry practical guide in school. The correlation test has shown a positive correlation between process skills and student's achievement with  $r_{count} > r_{table}$  ( $0.68 > 0,361$ ) with an activity contribution of 46 % for control class and  $r_{count} > r_{table}$  ( $0.88 > 0,361$ ) with an activity contribution of 77 % for experiment class

Key Words : *Practical Guide, Process Skills, Student's Achievement, Salt Hydrolysis.*