

**THE INFLUENCE OF DISCOVERY LEARNING MODEL
TOWARD THE STUDENT'S ACHIEVEMENT WITH
CREATIVITY AND COOPERATION IN
TEACHING OF SALT HYDROLYSIS
M. Indra Umar Pratama (Reg. Number 4103332020)**

ABSTRACT

The research of the influence of discovery learning model toward the student's achievement, creativity and cooperation in teaching of salt hydrolysis was be done. This research purposed to know whether discovery model can influence the student's achievement and also can develop creativity and cooperation character. The population of this research is all Senior High School Students Grade XI who have been given the curriculum 2013 and the sample were students at Madrasah Aliyah Negeri 2 (MAN 2) Tanjung Pura Grade XI. The sample were 2 classes, experiment class that taught with discovery learning model and control class that taught with conventional method. The instrument that used in this research consist of instrument test and non-test. The instrument test contain 20 questions in the form of multiple choice that has been standardized by statistical method by using t-test in Microsoft Excel 2007 Program with validity ; $r\text{-count} > 0.361$, reliability test ; $0.888 > r\text{-table}$ with category is high. The instrument also has been tested by using difficulty level test and different index test to make instrument good. Then, the result data was analyzed with normality test and homogeneity test by using SPSS v.17.0 program. The normality test was done with One sample Kolmogorov-Smirnov test with a significance level of 0.05. the normality test done for all the data, pretest experiment class, pretest control class, posttest experiment class, posttest control class, gain experiment class, and gain control class with value are 0.083, 0.075, 0.083, 0.399, 0.718, 0.958 that show all data are normal distributed. Homogeneity test was performed by using Levene's test, if $\text{sig.} > 0.05$, the data is homogeny. The value of pretest, posttest, and gain are 0.675, 0.285, 0.307 and all data can be said as homogeny data. Based on analysis data, both class seen the differentiate of student's achievement, where the average of posttest in experiment class is 82.7 with average gain is 0.786, meanwhile the average of posttest in control class is 68.1 with average gain is 0.61. the different of student achievement in both class proven by hypothesis testing by using SPSS shows that $t\text{-count} > t\text{-table}$ ($9.788 > 1.672$), can be concluded refusing H_0 and accepting H_a . It means student achievement that be taught by discovery learning model is significantly higher than student achievement that be taught by conventional method. The result of observation in developing creativity and cooperation character also show good result in every meeting the character increase with the %average score of creativity value is 68.98 and for cooperation character is 70.28, means discovery learning model can develop both creativity and cooperation character.

Keyword : *discovery learning, student's achievement, character, creativity, cooperation*