

**THE INFLUENCE OF DISCOVERY LEARNING MODEL TO INCREASE  
STUDENT'S ACHIEVEMENT AND STUDENT'S CHARACTER OF  
COOPERATION AND ACTIVENESS ON THE TEACHING OF  
ELECTROLYTE AND NON ELECTROLYTE SOLUTION  
IN SENIOR HIGH SCHOOL**

**Lina Marwiya (4103332019)**

**ABSTRACT**

The main objective in this research is to know the influence of discovery learning model towards of student's achievement and student's character of cooperation and activeness. The other objective in this research is to know the average percentage of student's cooperation and student's activeness can be developed by applied discovery learning model. This research was conducted in SMA Negeri 11 Medan on the second semester. The sample that use in this research are students in grade X in two classes, one class as control class and the other as experimental class. The research instrument that uses in this research consist of test instrument (evaluation test) and non test instrument (observation sheet). The instrument that used in this research had been tested based on validity and reliability. Based on validity, from 30 questions, there are 25 questions are valid and  $r_{\text{count}}$  for reliability test is 0.899. it means that the questions are reliable with high categories. From the research result, the average of posttest in experimental class is  $83.030 \pm 6.952$  with gain 0.774 (high) and the average of posttest in control class is  $71.212 \pm 5.453$  with gain 0.609 (medium). The data of this research had been analyzed by using normality test and homogeneity test, which is shown that data gain are normal distributed and homogeny. It is requirement to do hypothesis test. Based on the hypothesis test using T-Test was gotten value of  $\text{significance}_{\text{count}} (0.000) < \text{significance level} (0.05)$  in other that  $H_a$  is accepted and  $H_o$  is rejected. It means that the student's achievement who learnt using discovery learning model is higher than the student's achievement who learnt using conventional method. The percentage of student's cooperation and student's activeness from observation sheet data were developed from first meeting up to third meeting. The percentage of development of student's cooperation is 64.87%, while for student's actives also 64.87%.