THE IMPLEMENTATION OF COOPERATIVE LEARNING MODEL STUDENT TEAM ACHIEVEMENT DIVISION (STAD) TYPE BY USING LEARNING MODULE TO INCREASE STUDENT ACHIEVEMENT IN SALT HYDROLYSIS TOPIC

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ABSTRACT

This research have the purpose to know the significant different of learning outcomes of student after teach used Cooperative Learning Model Student Team Achievement (STAD) by using Module and Direct Instruction Method by using module in topic Salt Hydrolysis. The population in this research is all of student class XI SMA Swasta Al-Ulum Medan academic year 2012/2013 that have 4 class. The sample are chosen is random sampling, sample that take is XI Science 1 and XI Science 2 . Every class have 35 student. The research instrument using multiple-choice tests. After validation, amount of question become 20 from 40 question & reliability is 0.835. The learning outcomes can we know from ability of student in answer of chemistry question in salt hydrolysis topic, after teach by Cooperative Learning Model Student Team Achievement (STAD) and Direct Interaction Method. Result of research can shown in experimental class with average of pre-test 36.14 and post-test 79.85 . And then average score in control class for pre-test 38.71 and post-test 69. Score of Normality test by SPSS 17 for windows have ( sign > α ), score of pretest, post test and gain in experimental class is (0.283 > 0.05, 0.220 > 0.05 and 0.545 > 0.05). So, pretest, posttest, and gain in experimental class have Normal Distributed Categorized. Score of pretest, posttest, and gain in Control class is (0.298 > 0.05, 0.172 > 0.05, 0.630 > 0.05 ) so, pretest, posttest and gain in control class is Normal Distributed Categorized. Next, Homogeneity by SPSS 17 for windows is 0.05 ≤ 0.518 it means the data is homogeneity. Hypothesis data using SPSS 17 for windows we get the data Sig. (1-tailed) 0.000 < 0.05 it means Learning outcomes in cooperative learning model Student Team Achievement Division (STAD) type by using module is significant higher than student learning outcomes taught by Direct Interaction Method that integrated by using module.

Normality test by statistic test using Chi Square Formula (X²count > X²table), score of pretest and post test in experimental class is (7.97 > 11.07, 7.61 > 11.07) but in control class (6.95 > 11.07, 9.71 > 11.07) so pretest and post test is Normal Categorized. Next Homogeneity test by statistic ( Fcount < Ftable ).Based on the data score of Homogeneity is ( 1.21 < 1.77) so the data is homogeneous. From statistic test with α = 0.05 ,tcount > ttable or ( 9.5 > 1.68 ) Ha is accepted. The percentage of Increasing learning outcomes by using Student Team Achievement Division (STAD) is 68% and learning outcomes that teaching using Direct Interaction Method is 49%.