THE IMPLEMENTATION OF PROBLEM BASED LEARNING WITH MULTIMEDIA BASED ON COMPUTER TO FOSTER THE STUDENT’S CREATIVITY AND INCREASE THE STUDENT’S ACHIEVEMENT IN SALT HYDROLYSIS TOPIC

FENNY RIZKY AMELIA (4103332015)

ABSTRACT

The objectives of this research are (1) to know the student’s chemistry achievement that taught by Problem Based Learning model with multimedia based on computer and Direct Instruction method; (2) to determine whether there are significant higher of the student’s creativity character that taught by Problem Based Learning model with multimedia based on computer than taught by direct instruction method; (3) to determine whether there are significant higher of the student’s achievement that taught by Problem Based Learning model with multimedia based on computer than taught by direct instruction method and (4) to investigate how many effective the Problem Based Learning model with multimedia based on computer to increase the student’s achievement. Population of this research were all class in grade XI science on 2nd semester from SMAN 1, SMAN 3 and SMA YP HKBP in Padangsidimpuan. Sample was chosen by purposive random sampling and taken 6 classes from the population. The three class were used as experimental class and three other class were used as control class. The instruments that used were 25 items of multiple choice test (evaluation test) and an observation sheet of student’s creativity character that has 6 indicators. Before conducting the research, the pretest was done, and the data was tested by using homogeneity test. The result shows that the sample was homogeneous. Then the research was conducting in both of class and the observation of student’s creativity character were done during the process of research. In experimental class, the students were taught by using Problem Based Learning model while in control class, the students were taught by using Direct Instruction Method. The initial creativity character of students were assumed in same condition. After conducting the teaching-learning process, the posttest was done. It used SPSS-16 for windows program to calculate the data while the hypothesis testing was tested by using Independent Sample T-Test with one tailed t-test. The results of research are (1) The student’s chemistry achievement that taught by Problem Based Learning with multimedia based on computer is better (100% could pass KKM) than taught by direct instruction method (62.50% could pass KKM); (2) there are significant higher of the student’s creativity character that taught by Problem Based Learning model with multimedia based on computer than taught by direct instruction method; (3) there are significant higher of the student’s achievement that taught by Problem Based Learning model with multimedia based on computer than taught by direct instruction method and (4) the effectiveness of Problem Based Learning model with multimedia based on computer to increase the student’s achievement is 21.78%.