

## **ABSTRACT**

LIE LENNY MONICA. Efforts to Improve Capabilities Concept Training Mathematics Through Discovery Guided Learning Model in Class XI IPA 2 SMA Santa Theresia Jakarta. Thesis. Mathematics Education Faculty of Mathematics and Natural Science State University of Jakarta in 2016.

The purpose of this study was to determine the increase in the ability of understanding students' mathematical concepts through the application of Guided discovery learning model in class XI IPA 2 SMA Santa Theresia Central Jakarta. Sources of data in this study were 26 students of class XI IPA 2 SMA Santa Theresia Central Jakarta. The subjects were six students of class XI IPA 2 SMA Santa Theresia Central Jakarta whom lasted from February to March 2016.

This research is a classroom action research using guided discovery learning model. The study consisted of three cycles in each cycle there is a final test to measure the ability of understanding mathematical concepts class XI IPA 2 SMA Santa Theresia Central Jakarta.

The results showed that the study of mathematics by using guided discovery learning model could improve students' understanding of mathematical concepts. This is indicated by the learning process of each cycle progress included increased liveliness and enthusiasm the students. In the first cycle, as much as 50% of the study subjects reached the KKM, on the second cycle increased to 100% from the six study subjects reached the KKM, and the third cycle keep 100% of the six research subjects who reached the KKM.

***Keywords: Understanding of Mathematical Concepts, Discovery Guided Learning Model***