

## **CHAPTER V**

### **CONCLUSION AND RECOMMENDATION**

#### **A. Conclusion**

The research entitled Students' Conceptual Understanding in Learning Optic Based on Learning Style using Team Assisted Individualized has been finished well. According to the result and analysis of data obtained, the conclusions are:

1. The profile of students' learning style was obtained using VARK Questionnaire, there are four kind of learning style that spread through out the class. Eventhough the number was different, but at least in one class there was consist of four learning styles. This result was used as the bases of the analysis for the conceptual understanding per sub cuncept in learning optic.
2. Team assisted individualized is able to improve students conceptual understanding, it is shown by N-Gain value that was obtained which is 0,604, means that the activity that run during five meetings are categorized can improve students conceptual understanding with fair category. This learning model has a quite complex steps, but in the other hand those steps are able to be adjusted and support all of the learning style in a certain proportion of activity. An activity that tend to support a certain students' learning style or learning preference may improve their conceptual understanding more, thus a complete learning activity that can support visual, aural, read/write and kinesthetic is a good effort to do.
3. The improvement of conceptual understanding based on learning style are different. Conceptual understanding will be improved if the activity that conducted was appropriate with the topic that being tought as well as fit with students' learning style. In this research. The most progressive learning style in learning optics was Visual by obtain the average normalized gain value of 0,69. The second was Kinesthetic learning style by obtain the average normalized gain value of 0,62. This is mean that there is a better improvement in learning optic rather than the other learning style. This is might happen because the characteristic of concept also gives the impact to the students' achievement. In optic concept, the materials are mostly

used a visual or hands-on aid, that is why the most improved learning style is Visual and Kinesthetic.

## **B. Recommendation**

According to the result and findings of this research, the author realize that there are several aspects that still needed to be improved, here the author going to give some recommendation that considered as necessary for the next research, they are:

1. The instrument that provided for the research is better to add more from the other reference that already tested its validity and reability, it would make the test is more objective and trusted.
2. The analysis of lesson plan need to improved, because from that lesson plan we can analyze more about the success factor of students' achievement, not only analyze from the learning method or learning style.
3. The preparation of class and any tools that needed have to be improve, because it will affect the succesful of the learning especially in the research.
4. The rubric of observation sheet need to be added with more specific aspect, it is the scoring of the implementation and the observataion of each group activity, not only for the students in general.
5. Dig up a little bit more information about students' profile that the school have, it can improve the analysis of students' characteristic and prior knowledge.

