

CHAPTER V

CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusion

Based on data analysis of the research of development of Physics laboratory manual based on inquiry laboratory then concluded that:

First, Physics laboratory manual has been developed based on inquiry laboratory. All validators give positive response to laboratory manual. The value from their responses successively content (average 4.22 categorized as very valid), depth (average 4.17 categorized as valid), design (average 4.67 categorized very valid) and language (average 4,56 categorized very valid). Students give positive response to laboratory manual. The value from their responses successively graphic (average 4.29 categorized as very valid), language (average 4.14 categorized as valid), presentations (average 4.49 categorized very valid) and contextual (average 4,64 categorized very valid).

Second, by using laboratory manual based on inquiry laboratory show that there is difference between level of skill performance for a group and individual student performance. Group performance and individual student performance have almost the same level For ability to perform experiments successfully without supervision, 2,52 categorized “Good Performance”, and ability to organise and perform experiments safely and with awareness of priority in the laboratory; 2,62 categorized “Good Performance”. For ability to show the engagement in conducting experiment level of group performance is higher than individual student performance. Group performance have mark 2,58 categorized “Good

Performance” level while individual student performance have mark 2,44 categorized “Fair Performance” level. Likewise, the ability to demonstrate care and respect for the equipment set up level of group performance is higher than individual student performance. Group performance have mark 2,56 categorized “Good Performance” level while individual student performance have mark 2,43 categorized “Fair Performance” level. This occurs because students have different capabilities depending in implementing experiment in their group and less concerned with practical activities.

5.2 Recommendation

For the next research recommended more attention for the effectivity of this laboratory manual to look for the student’s competencies on scientific investigation in laboratory.