CHAPTER V

CLOSING

5.1. Conclusion

Based on the findings of research conducted at SMAN 2 Percut Sei Tuan on learning outcomes and student activities in class XI acid-base learning during the 2023/2024 academic year, the following conclusions can be concluded:

- 1. There is a significant influence of the use of the Project-Based Leaning learning model on learning outcomes in class XI acids and bases material at SMAN 2 Percut Sei Tuan for the 2023/2024 academic year. The results of the independent t-test on post-test data yielded a t_{count} of 23.777 and a Sig (2-tailed) of 0.000. The t_{table} distribution value for df = 70 and a significance level of α = 0.05 is 1.994. Because t_{count} > t_{table} (23.777 > 1.994) and Sig. (2-tailed) 0.000 < 0.05, Ho is rejected, and Ha is approved.
- 2. There is a significant influence of the use of the Project-Based Leaning learning model on student activities in class XI acids and bases material at SMAN 2 Percut Sei Tuan for the 2023/2024 academic year. The findings of the independent t-test on the final activity data were t = 6.167 and Sig (2-tailed) = 0.000. The t_{table} distribution value for df = 70 and a significance level of a = 0.05 is 1.994. The value of t_{count} > t_{table} (6.167 > 1.994) and Sig (2-tailed) 0.000 < 0.05 rejects Ho and accepts Ha.
- 3. There is a correlation between increased student learning outcomes and student learning activities. This is evident in the findings of the correlation test between learning outcomes and student activities utilizing the project-based learning approach. There is a significant association between student learning outcomes and learning activities at SMA Negeri 2 Percut Sei Tuan on acid-base material, as indicated by Sig. (2-tailed) = 0.000 < 0.005.

5.2. Suggestion

Based on the research process and results, the researcher provides suggestions:

- the researcher in presenting concepts and identifying data, the majority of students were able to understand acids and bases and increased student activity after implementing the Project-Based Learning model. Hence, the researcher suggested that teachers could use the Project Based Learning model as an alternative learning model for students in class XI.
- 2. Teachers should always encourage students to study the material first before starting learning so that students can be active when learning takes place.
- 3. It is hoped that there will be further research on learning using the Project-Based Learning method so that it can help teaching staff improve the quality of education.

