

ACKNOWLEDGEMENT

Praise and Gratitude must be prayed to Almighty God for all the graces and blessings that provide health and wisdom to the author so writer can finish this thesis.

The title of this thesis is “The Effectiveness of Discovery Learning Model Integrated with Experiment to Increase Student’s Achievement on Learning Colloidal System“. This research is done in SMA N 2 Lintongnihuta in academic year 2014/2015 that prepared to get degree Sarjana Pendidikan of Chemistry Education, Faculty of Mathematics and Natural Sciences, State University of Medan.

On this occasion, the author also conveys a respect and gratitude to:

- ✓ Mr. Dr. Marham Sitorus, M.Si, As a thesis supervisor who has provided guidance and suggestions to the author since the beginning of the study until the completion in writing this thesis.
- ✓ Give thanks also to Prof. Dr. Ramlan Silaban M.Si, Drs. Rahmat Nauli M.Si, and Dra. Ani Sutiani M.Si who has provided suggestions from the plan until the completion of this thesis.
- ✓ Thanks also conveyed to Dr. Retno Dwi Suyanti M.Si, as the Academic supervisor who always guided researcher during the lecture and the entire along with Mr. and Mrs. Staff and Lecturer in Chemistry department especially in Bilingual study program of FMIPA UNIMED who have helped the author.
- ✓ The award was also presented to Mr. Drs. Nelson Tambuan, M.M as a school principal of SMA N 2 Lintongnihuta and Mrs. Tiur Bourne Sihombing S.Pd as a teacher and staff which assist in this implementation of this research.
- ✓ Special gratitude no limit to best ever parents in my life, my father Bogsa Tampubolon and my mother Linda Siahaan who always caring, raising and educating me with love and affection. Thanks to pray, motivation and sacrifices for both of them, So I can complete my first degree in Sarjana Pendidikan (S.Pd/S-1) in this State University of Medan.

- ✓ My thanks also for my beloved sisters, Lidiana Tampubolon, Saula Tampubolon, Elisabeth Tampubolon, and Harmenita Tampubolon who always giving love, support, motivation, and laugh until the completion of this thesis, I love u all.
- ✓ For my friends in Field Experience (PPL) who always be my part, Nova, Yolanda, Nancy, Jony, Partogy, Donni, Frederick, Jasmen, Aprita, Lestari, and Rony. Thanks for our friendship and everything that we passed together.
- ✓ For my crazy friends, Debby, Evina, Riris, and Ruth, thanks for unlimited laugh, craziness, folly, madness, and experience that make me more confidence and brave in my life. Thanks for that friendship but feeling more than family.
- ✓ This CESP'11 the most crazy and enjoyable class ever, full of ambition but full of fun, Bayu, Haposan, Jori, Angela, Angeline, Anggun, Cholida, Debby, Desi, Evina, Fatma, Hesti, Intan, Juliani, Juwita, Lanita, Liesa, Mariani, Nova, Poppy, Rhone, Riris, Rusdi, Ruth, Sintia, Siti, Yolanda, and Yuni. Thanks for this 4 years guys and let's go to the next ambition.
- ✓ Do not forget also thanks for my friends in Senior High School Josua, Intan, Andri, Ginotan, Mega, Faldo, Romario. Thanks for suggestion, support, experience, laugh until the completion of this thesis.

Actually the author has doing the maximal effort in the completion of this thesis, but the author is aware there are many weaknesses in terms of both content and grammar. Authors hope the suggestions and constructive criticism from readers for completeness the thesis perfectly. At least, Author hope this thesis can be useful to enrich the readers in science education.

Medan, June 2015

Author

Ricki Marulitua Tampubolon
IDN. 4113131060