ACKNOWLEDGEMENT

The greatest praise and thankfulness to the Almighty God for His Grace and Blessing who always give health, spirit, strength, and everything to the author in finishing this thesis well and accordance to the planning time.

The title of this thesis is “The Development of Innovative Learning Module on Teaching of Salt Hydrolysis Based on Curriculum 2013” has been arranged to obtain the degree of Sarjana Pendidikan in Department of Chemistry, Faculty of Mathematics and Natural Science (FMIPA), State University of Medan (UNIMED).

In this opportunity, I would like to express the great appreciation to Prof. Drs. Manihar Situmorang, M.Sc., Ph.D., as my Thesis Supervisor and Prof. Dr. Ramlan Silaban, M.Si., Dr. Zainuddin Muhtar, M.Si., Dr. Marham Sitorus, M.Si., as the contributor for their valuable time spent in giving guidances, advices, motivations, comments, and suggestions during the process in finishing this thesis.

I also says thanks to Prof. Drs. Motlan, M.Sc., Ph.D., as the dean Faculty of Mathematics and Natural Sciences, State University of Medan, then Dr. rer. nat. Binari Manurung, M.Si., and Dr. Iis Siti Jahro, M.Si., as the head and Secretary of Bilingual Program. Great thanks to Dr. Retno Dwi Suyanti, M.Si., and Dra. Ani Sutiani, M.Si., as the expert lecturer to Standardize the module, validate the instrument test and flash animation in this research. And also thanks to Syamsuddin, S.E., as bilingual staff for helping in administrative assistance and kindness.

I am grateful also to all lectures who have rendered their knowledge and experience during academic program in university, the principle and teacher of SMAN 5 Medan, the principle and teacher of SMA Swasta Santo Thomas 1 Medan, and the principle and teacher of SMAN 1 Percut Sei Tuan who have given their helping, motivation and support to finish the research.

The deepest and special gratitude, appreciation and love to my beloved parents, B. Aruan and R. Sihombing for their countless love, supports, prays, motivation and careness and also to my beloved younger brother, Rinaldi Eka Saputra Aruan, and two younger sisters, Tina Kristiani Aruan and Dini Oktavia.
Revalina Aruan who have given great motivation during this research. And
unforgetfully to my aunt and uncle from Aruan’s family and Sihombing’s family for
their supporting that make me spiritfully.

Special thanks also goes to Paduan Suara Ostentus as a place where i learn become the strong personality. Especially for my friend, Sinitta Ella Siregar, Dewi N Marpaung and all of Bilingual Chemistry 2010, my sister Kristina Maranatha Ginting, Endang Saragih, Lisnawaty Gultom, Febry Limbong, Putri Hutahaean, Jane Lumbantoruan, S.Pd and my brother, Vladilen Marbun, David Julianto Sirait, Roy Adi Putra Manalu, Sanhot Simare-mare and Dimas F Simatupang, S.pd and everyone who cannot be mentioned his/her name for their support and friendship during my academic years.

Finally, I hopes this thesis would be useful for everyone who like to explore more about the learning media and method that suitable to learn salt hydrolysis notably and chemistry generally. May God bless us forever.

Medan, July 2014

Author,

Bernike Firmayanti Aruan