## ACKNOWLEDGEMENT

Thanks to Almighty Allah SWT who has blessed the writer to complete her thesis and also he always give the writer mercy so that this research could be done on time.

This Thesis had titled "The Effectiveness Of Interactive Learning Module To Improve SHS Student's Learning Outcomes On The Teaching Of Redox". This thesis was aim to fulfill the requirement for Degree of Chemistry Education, at Chemistry Department of Faculty of Mathematic and Natural Science (FMIPA), State University of Medan (UNIMED).

Prior the writer would like to said thanks to Prof. Drs. Motlan, M.Sc, Ph. D, as the Dean of FMIPA UNIMED, Prof. Herbert Sipahutar, M. Sc, as the Coordinator of Bilingual Program in FMIPA UNIMED, Dr. Iis Siti Jahro, M. Si, as Secretary of Bilingual Program in FMIPA UNIMED, and also Drs. Jamalum Purba, M. Si, as Head of Chemistry Department.

In this Thesis arrangement writer especially would like to express special gratitude to: Prof. Dr. Ramlan Silaban, M.Si, as Thesis Supervisor for his guidance because he always give me brilliant suggestion in my Thesis. The writer also said thanks to academic advisor, Drs. Marudut Sinaga, M. Si, who supported the writer when learning in the collage. The great thanks also goes to Prof. Drs. Manihar Situmorang, M.Sc, Ph.D, Drs. Marham Sitorus, M.Si, and Drs. Eddyanto, Ph.D as Thesis Examiner Lecturer. In all daily activities of them, I was lucky because they always guide and give me great suggestion. Also for Dr. Retno Dwi Suyanti, M. Si, as validator of the Interactive Learning Module and Content Validation.

The writer said thanks Drs. Sahlan Daulay, M. Pd, as Head Master of SMAN 3 Medan, Sofyan Siregar, S. Ag, as Head Master of SMA Swasta Al-Ulum Medan, and Hendra S.T., M. Pd, as Head Master of SMA Swasta Sutomo 2 Medan. Also said thanks to all the teachers who help me in the research Demse Pardosi, S. Pd, M. Si, Martini S. Si and Abdul Rain Ginting, S. Si. The special gratitude to my parents Kasim Ama. Pd, and Asmarawati, my brother Fahrul Rozi and my sister Linda Hariana S. Pd, also to my sweet young brother and sister M. Alfarizi and Nur Annisa Al-Jannah for their spirit and financial support, always patience and pray during my study.

Special thanks to all my friends in Class Bilingual Chemistry Education 2009, for my best friends (Fitri, Ika, Yeni, Lia, Irna, Rahmi, Dayat, Siro, and Laila) also for sisters Lia, Dila, brother Bibi who have given me spirit to finish my study. The writer also would like to said thanks to all whose name can't be mentioned one by one for their support and friendship in my life.

Medan, July 17<sup>th</sup> 2013 The Writer,

Masitho Purnama Sari ID. 409332025