

PREFACE

The author says the great praise and gratitude to Krisna (God Almighty), for all the graces and blessings that provide health and wisdom to the author that this study can be completed properly with the planned time. This thesis entitled “The Effect of Problem Based Learning Model Using Animation toward Student’s Critical Thinking Skill about Heat and Temperature at Grade X-Science in First Public Senior High School of Tebing Tinggi Academic Year 2015/2016”. This thesis was prepared to obtain a bachelor’s degree of physics education (*Sarjana Pendidikan Fisika*), Faculty of Mathematics and Natural Science in State University of Medan

On this occasion the author would like to thank Dr. Sondang R. Manurung, M.Pd. as thesis advisor who has provided guidance and suggestions to the author since the beginning of the study until the completion of this thesis. Thanks also to Drs. Sehat Simatupang, M.Si. as the academic supervisor. Especially the author would also thanks to everyone from SMAN 1 Tebing Tinggi who had helped the author finish this research.

The author like to share his research as a study materials. The author understand there are many mistakes either in terms of content or grammar, then the author welcome for any suggestions and constructive criticism from readers. The author hopes the contents of this thesis would be useful in enriching our knowledge.

Medan, July 2016
Author,

Yudhistira

