

## PREFACE

Praise and gratitude to God Almighty who has given His mercy and grace, so that the author can complete this thesis entitled "Development of Video Learning Media Based on the Canva Application on Buffer Solution Materials at SMA Budi Agung Medan" well. This thesis was prepared to fulfill some of the requirements needed to achieve a Bachelor of Education degree in the Bilingual Chemistry Education Study Program, Faculty of Mathematics and Natural Sciences (FMIPA), Medan State University (Unimed).

The preparation of this thesis has gone through a long, tiring journey and various stages following the standard procedures that apply at FMIPA Unimed, starting from the stage of determining the research topic, preparing seminar proposals, conducting research, preparing the thesis, and defending the thesis exam. The selection of research topics is based on current problems related to the implementation of the 2013 Curriculum. The implementation of this curriculum in the classroom still requires improvement in order to produce high school graduates who have balanced cognitive, psychomotor and attitude abilities and are ready to face the industrial revolution 4.0. This research is intended to provide input for improvements to the implementation of the 2013 Curriculum.

The author realizes that the preparation of this thesis will not be completed without the support of various parties, both directly and indirectly. Through this opportunity, the author would like to express his gratitude to all parties who have helped in the preparation of the thesis. The greatest gratitude is conveyed to :

1. Chancellor of Medan State University, Prof. Dr. Baharuddin, S.T., M.Pd;
2. Dean of the Faculty of Mathematics and Science, State University of Medan, Dr. Ani Sutiani, M.Si;
3. Head of the Chemistry Department, Faculty of Mathematics and Science, State University of Medan, Dr. Ayi Darmana, M.Si;
4. Coordinator of the Bilingual Program, Faculty of Mathematics and Science, State University of Medan, Dr. Ely Djulia, M.Pd;
5. Coordinator of Chemistry Education Study Program, Department of Chemistry, Faculty of Mathematics and Science, State University of Medan, Haqqi Annazili Nasution, S.Pd., M.Pd;

6. My Academic Supervisor Lecturer, Prof. Dr. Retno Dwi Suyanti, M.Si, for her extraordinary guidance, motivation, and direction so that I can complete my studies on time;
7. My Thesis Supervisor Lecturer, Dr. techn. Marini Damanik, S.Si.,M.Si, for her extraordinary guidance, motivation, and direction so that all stages of completing this thesis can be passed well;
8. My Examiners, Dr. Zainuddin Muchtar, M.Si, Prof. Dr. Muhammad Yusuf, M.Si, and Susilawati Amdayani, S.Pd., M.Pd, have provided many criticisms and suggestions for improvement starting from the proposal seminar stage to the thesis defense exam stage so that this thesis can be completed well too;
9. My Video Learning Media development product validators, Dwy Puspita Sari, S.Pd., M.Pd, Fery Andi Syuhada, S.Pd., M.Pd, Mutiara Agustina, S.Pd., M.Pd, and Prof. Dr. Retno Dwi Suyanti, M.Si, for their invaluable assistance through validation of research instruments and development products;
10. The author also would like to thank the Head of SMA Budi Agung Medan, Drs. Sandi Basuki, and also the chemistry teachers of SMA Budi Agung Medan, Fatayatul Hasniyah, S.Pd, and Tiur Ida Ronauli Tambunan, S.Pd, Gr, who have allowed and helped me in conducting research at the school;
11. The author would also like to express special gratitude to Umar, S.Pd., M.Pd, Gr, who helped me register at a state university until I was accepted in the Bilingual Chemistry Education Study Program, Faculty of Mathematics and Science, State University of Medan on the SBMPTN pathway in 2020;
12. To the Ministry of Research and Technology, I would also like to express my gratitude for the scholarship assistance given to me during my studies at FMIPA Unimed. Without the scholarship, I would not have been able to complete this study well;
13. I would like to express my deepest gratitude to my parents, Mr. Amran Effendi and Mrs. Syahbanda Priatni, and my sibling brother Sakban Nur Fahmi, who have given me prayers, support, strength, and motivation so that I can go through the happy and sad phases during my studies and thesis period well;
14. My fellow students of “YWWA” who have supported me from the beginning to the end of my struggle and are willing to devote their time to help me complete this thesis until it is finished;

15. My fellow students of “CESP 2020”, especially Annisa Rahayu,S.Pd, who has faithfully accompanied me from the beginning of semester 1 to the stage of the thesis defense exam;
16. My “Sahabat Till Jannah” friends, Refi Mariska, Tri Anggraini, Diana Wahyuni,S.Pd, and Widya Revalina Pratiwi,S.Tr.M, who still always provide support and motivation so that I can complete this thesis well;
17. Students of XI Science of Ustman Bin Affan’s Class at SMA Budi Agung Medan have agreed to be the object of this thesis research.

The author realizes that this thesis still has shortcomings and limitations, however, while expecting constructive criticism and suggestions, the author hopes that this thesis can be useful for related parties, especially in perfecting the implementation of the 2013 Curriculum in the classroom.

Medan, August 14<sup>th</sup>, 2024

The Author,



Vira Maharani

THE  
*Character Building*  
UNIVERSITY