

## ACKNOWLEDGEMENT

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The selection of research idea is based on current problems, especially during online learning activities during the Covid19 pandemic 2020-2021 regarding the effectiveness of several online learning platforms and their influence on perceptions and learning behavior. Student satisfaction as platform user will affect their perception of the platform itself which will also affect their learning behavior. Perception and learning behavior affect the learning activity itself and refers to the learning outcomes that will be obtained by students.

This research is intended to provide input for improvements to the regulation of online learning activities and SIPDA as official learning platform in Universitas Negeri Medan. The author realizes that the preparation of this thesis could not be completed without any support of various parties, either directly or indirectly. A big thank you is covered to Mr. Drs. Syarifuddin, M.Sc., Ph.D., as the Thesis Supervisor, for his guidance, motivation and recommendation so that all stages in the preparation of this thesis can be passed well. To Mr. Prof. Dr. Drs. Tri Harsono, M.Si., Mr. Dr. Mufti Sudiby, M.Si., and Mrs. Dra. Cicik Suriani, M.Si., as the Examiners Lecturers, who have provided criticism and suggestions for improvement starting from the proposal seminar to the stage of defending the thesis, so that this thesis can be completed properly as well. To Mr. Wasis Wuyung Wisnu Brata, S.Pd., M.Pd., and Mrs. Dr. Ely Djulia, M.Pd., for their help as validators for the instruments used by the author in this research. To Mr. Dr. Hasruddin, M.Pd., as the head of the Biology Department who has given

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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 improving the online learning process and the effectiveness of SIPDA as an online learning platform at Universitas Negeri Medan.

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The author,

