

PREFACE

The author say the praise and gratitude to God Almighty, for all the grace and blessing that provide health and wisdom to the author that this study can be completed properly in accordance with the planned time.

Thesis entitled “The effect of Cooperative Learning Model type of Jigsaw Using Animation Media on Learning Outcomes of Students in Temperature and Heat in Subject Matter Class X MAN 3 Medan”, prepared to obtain a Bachelor’s degree Physical Education, Faculty of Mathematics and Natural Science in State University of Medan.

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The author has endeavored to as much as possible in completing this thesis, but the author is aware there are many drawbacks in terms of both content and grammar, then the author welcome any suggestions and constructive criticism from readers for this thesis perfectly. The author hope the contents of this paper would be useful in enriching the repertoire of knowledge.

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