

PREFACE

Praise and Thank God the writer prayed to God for all of His grace so that this thesis can be completed well in accordance with the planned time. This thesis entitles “The Development of E-Modules Based On Problem Based Learning On Work And Energy Materials To Improve Student Learning Outcomes In SMA Negeri 1 Tanah Pinem” was prepared to obtain Sarjana Pendidikan (S1) in Physics Education, Faculty of Mathematics and Natural Science, Universitas Negeri Medan.

The author realizes that this thesis is still far from perfection, therefore the author really expects input from various parties in the form of constructive criticism and suggestions for the improvement of this thesis.

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