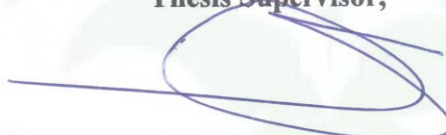


Title of Thesis : **The Effect of Using Macromedia Flash in Physics Learning with Direct Instruction Model to Students' Learning Outcomes of Heat and Temperature Subject in Grade X MAN 2 Model Medan Academic Year 2015/2016.**

Name : **Dinda Marina Sinaga**
ID Number : **4121121006**
Study Program : **Bilingual Physics Education**
Department : **Physics**

Approved by:
Thesis Supervisor,



Dr. Ridwan Abd. Sani, M.Si
NIP. 19640610 198803 1 017

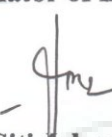
Acknowledge By:

Head of Physic Department,

Coordinator of Bilingual Program,



Alkhafi Maas Siregar, M.Si
NIP. 19690127 199412 1 001



Dr. Iis Siti Jahro, M.Si
NIP. 19651015 199203 2 003



FMIPA UNIMED
Dean,

Dr. Astri Lubis, M.Pd
NIP. 19601002 198703 1 004

Date of Graduation : June 21st 2016