

UNIVERSITAS NEGERI MEDAN

DEVELOPMENT OF VIRTUAL CHEMISTRY LABORATORY AS
INTERACTIVE PRACTICAL MEDIA FOR SENIOR HIGH SCHOOL GRADE
XI ON TOPIC SOLUBILITY AND SOLUBILITY PRODUCT

Arranged and submitted by

YUNIA RIZKI

NIM : 8156142016

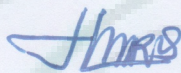
This Thesis was examined by Thesis Examiner Board
On 29th August 2018 and Stated to have Fulfilled
the Requirements for Degree of Magister Education
Chemistry Education Study Program

Medan, 29th August 2018

Approved by :

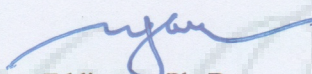
Adviser Commission

Thesis Adviser 1



Dr. Murniaty Simorangkir, M. S
NIP. 19590504 198403 2 001

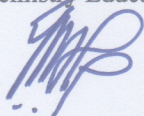
Thesis Adviser II



Eddiyanto, Ph. D
NIP. 19670425 199403 1 012

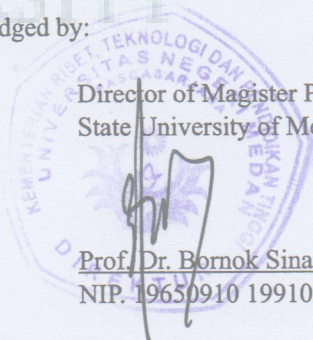
Acknowledged by:

Head of Study Program
Chemistry Education



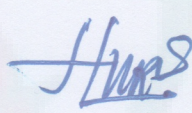
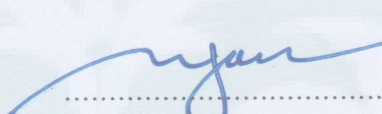
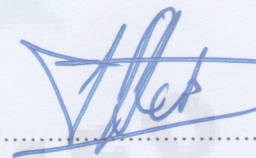
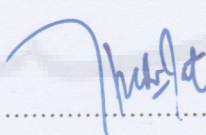
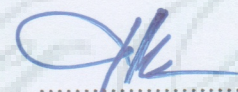
Prof. Dr. Ramlan Silaban, M. Si
NIP. 19600618 198703 1 002

Director of Magister Program
State University of Medan



Prof. Dr. Bornok Sinaga, M. Pd
NIP. 19650910 199102 1 001

APPROVAL OF EXAMINERS BOARD
THESIS EXAMINATION MAGISTER OF CHEMISTRY EDUCATION

NO.	NAME	Signature
1.	Dr. Murniaty Simorangkir, M. S NIP. 19590504 198403 2 001 (Thesis Adviser I)	
2.	Eddiyanto, Ph. D NIP. 19670425 199403 1 012 (Thesis Adviser II)	
3.	Prof. Dr. Retno Dwi Suyanti, M. Si NIP. 19660126 199103 2 003 (Thesis Examiner)	
4.	Dr. Ajat Sudrajat, M. Si NIP. 19640625 199003 1 003 (Thesis Examiner)	
5.	Dr. Simson Tarigan, M. Pd NIP. 19600223 198603 1 005 (Thesis Examiner)	

Name : Yunia Rizki
NIM : 8156142016
Study Program : Chemistry Education
Examination Date : 29th August 2018

Pernyataan Tidak Melakukan Plagiat dan Memalsukan Data

Saya yang bertanda tangan di bawah ini :

Nama : YUNIA RIZKI
NIM : 8156142016
Tahun Masuk : 2015
Prodi : Magister Pendidikan Kimia
Judul Tesis : Development of Virtual Chemistry Laboratory As Interactive Practical Media for Senior High School Grade XI on Topic Solubility and Solubility Product

dengan ini menyatakan bahwa :

1. Benar tesis saya adalah karya saya sendiri, bukan dikerjakan orang lain.
2. Saya tidak melakukan plagiat dalam penulisan tesis saya
3. Saya tidak ada merubah atau memalsukan data penelitian saya

Jika ternyata di kemudian hari terbukti saya telah melakukan salah satu hal diatas, maka saya bersedia dikenai sanksi yang berlaku berupa pencopotan gelar saya

Demikian pernyataan ini saya buat dengan sebenarnya

Medan, 25 September 2018

Saya yang membuat pernyataan,



Nama : YUNIA RIZKI

NIM : 8156142016