

**MATHEMATICAL ABSTRACTION OF
PRE-SERVICE MATHEMATICS TEACHERS
IN LEARNING NON-CONVENTIONAL MATHEMATICS CONCEPTS**

A Dissertation Submitted in Partial Fulfillment
of the Requirements for
Doctor of Mathematics Education



Farida Nurhasanah

NIM: 1201426

**STUDY PROGRAM OF MATHEMATICS EDUCATION
SCHOOL OF POSTGRADUATE STUDIES
UNIVERSITAS PENDIDIKAN INDONESIA
2018**

**MATHEMATICAL ABSTRACTION OF
PRE-SERVICE MATHEMATICS TEACHERS
IN LEARNING NON-CONVENTIONAL MATHEMATICS CONCEPTS**

Oleh
Farida Nurhasanah

Dr. Universitas Pendidikan Indonesia, Bandung, 2018
M.Pd. Universitas Pendidikan Indonesia, Bandung, 2010

Sebuah Disertasi yang diajukan untuk memenuhi salah satu syarat memperoleh gelar Doktor Pendidikan (Dr.) pada Program Studi Pendidikan Matematika

© Farida Nurhasanah 2018
Universitas Pendidikan Indonesia
April 2018

Hak Cipta dilindungi undang-undang.

Disertasi ini tidak boleh diperbanyak seluruhnya atau sebagian,
dengan dicetak ulang, difoto kopi, atau cara lainnya tanpa ijin dari penulis.

**MATHEMATICAL ABSTRACTION OF
PRE-SERVICE MATHEMATICS TEACHERS
IN LEARNING NON-CONVENTIONAL MATHEMATICS CONCEPTS**

by
Farida Nurhasanah

Dr. Universitas Pendidikan Indonesia, Bandung, 2018
M.Pd. Universitas Pendidikan Indonesia, Bandung, 2010

A dissertation proposed to fulfill one of the requirements for obtaining a
Doctorate in Education (Dr.) in the Mathematics Education Study Program

© Farida Nurhasanah 2018
Universitas Pendidikan Indonesia
April 2018

All rights reserved.

This dissertation may not be reproduced in whole or in part,
with reprints, photocopies, or other means without authorization from the author.

**MATHEMATICAL ABSTRACTION OF
PRE-SERVICE MATHEMATICS TEACHERS
IN LEARNING NON-CONVENTIONAL MATHEMATICS CONCEPTS**

Has been approved by:

Director of Advisory Commite :

Prof. Yaya S. Kusumah M.Sc., Ph.D

Vice Director of Advisory Commite:

Prof. Jozua Sabandar, M.A.,Ph.D.

Member of Advisory Commite :

Prof. Dr. Didi Suryadi, M.Ed.

Approved by the Head of Mathematics Education Departement :

Dr. Sufyani Prabawanto, M.Ed.