

**A MODEL OF DEVELOPING MENTOR TEACHER' S  
COMPETENCIES TO ENHANCE MATHEMATICS  
LEARNING PROVISION IN THE 21<sup>ST</sup> CENTURY**

**KOMKAI PAITON**

**DOCTOR OF PHILOSOPHY**

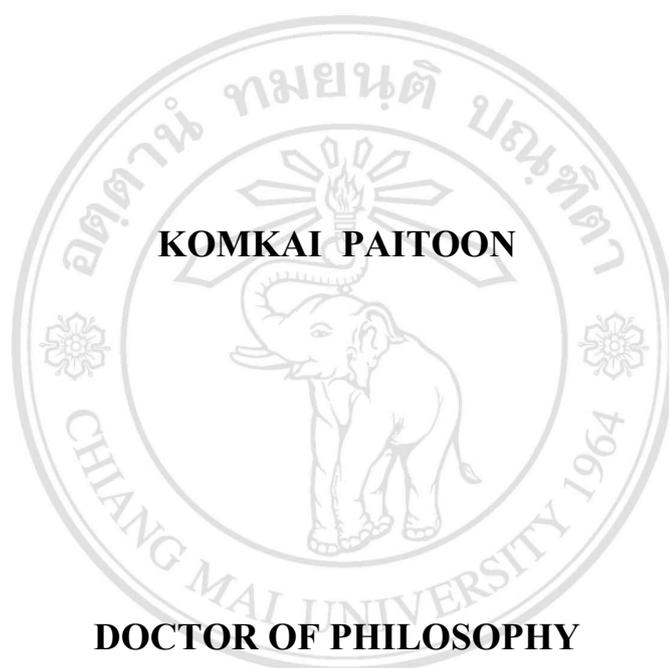
**IN RESEARCH AND DEVELOPMENT IN EDUCATION**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University  
All rights reserved

**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
SEPTEMBER 2016**

**A MODEL OF DEVELOPING MENTOR TEACHER' S  
COMPETENCIES TO ENHANCE MATHEMATICS  
LEARNING PROVISION IN THE 21<sup>ST</sup> CENTURY**



**DOCTOR OF PHILOSOPHY  
IN RESEARCH AND DEVELOPMENT IN EDUCATION**

Copyright© by Chiang Mai University  
All rights reserved

**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
SEPTEMBER 2016**

**A MODEL OF DEVELOPING MENTOR TEACHER' S  
COMPETENCIES TO ENHANCE MATHEMATICS  
LEARNING PROVISION IN THE 21<sup>ST</sup> CENTURY**

**KOMKAI PAITON**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN RESEARCH AND DEVELOPMENT IN EDUCATION**

**GRADUATE SCHOOL, CHIANG MAI UNIVERSITY  
SEPTEMBER 2016**

**A MODEL OF DEVELOPING MENTOR TEACHER'S  
COMPETENCIES TO ENHANCE MATHEMATICS  
LEARNING PROVISION IN THE 21<sup>ST</sup> CENTURY**

KOMKAI PAITON

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
THE REQUIREMENTS FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN RESEARCH AND DEVELOPMENT IN EDUCATION

**Examination Committee:**

*Pl. Tach*  
..... Chairman  
(Prof. Dr. Phasina Tangchuang)

*Sune Nguenyuang*  
..... Member  
(Dr. Sune Nguenyuang)

*Kiatsuda S.*  
..... Member  
(Assoc. Prof. Dr. Kiatsuda Srisuk)

*Tipparat*  
..... Member  
(Dr. Tipparat Noparit)

*Nampueng Intanate*  
..... Member  
(Dr. Nampueng Intanate)

**Advisory Committee:**

*Nampueng Intanate*  
..... Advisor  
(Dr. Nampueng Intanate)

*Tipparat*  
..... Co-advisor  
(Dr. Tipparat Noparit)

*Kiatsuda S.*  
..... Co-advisor  
(Assoc. Prof. Dr. Kiatsuda Srisuk)

15 September 2016

Copyright © by Chiang Mai University

## ACKNOWLEDGEMENT

Foremost, I would like to express my sincere gratitude to Dr.Nampueng Intanate, chairperson of thesis committee, and Assoc. Prof. Dr. Kiatsuda Srisuk and Dr. Tipparat Noparit, the committee members, who endowed me during my doctoral studies with knowledge and a new and insightful perspective, and corrected every mistake with their careful attention. Without their contribution, this doctoral thesis could not have been completely accomplished.

Additionally, I am wholeheartedly grateful to Prof. Dr. Phasina Tangchuang, chairperson of the oral defense of the doctoral thesis, and Dr. Sunee Nguenyuang, a committee member, whose expertise advice made this dissertation complete and much more academically beneficial. I would like to also thank all experts who generously provided useful information and suggestions about how to develop mentor teachers' competencies promoting mathematics learning and teaching management in the 21<sup>st</sup> century, as well as about how to develop the research instruments. As well, I really appreciate all the participants in this study who dedicated their time giving essential information for the research study. Likewise, I also feel much thankful to administrators, teachers and students in the schools where this study had been successfully conducted.

My profound appreciation also goes to all administrators and my colleagues at Lampang Rajabhat University, who kindly allowed me to work on this thesis during the weekdays. My deepest thanks also go to my parents, my brother, my husband and my children, my relatives, as well as all my classmates and my students, whose encouragement and love always helped me overcome each and every obstacle and accomplish all difficult tasks, including this research study.

Also, I deeply appreciate the National Research Council of Thailand for granting the research funding.

Last but not the least, I am eternally indebted to all my beloved teachers who inspired and endowed me with knowledge and all decencies in me.

Komkai Paitoon