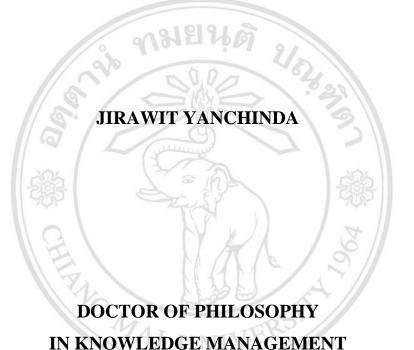
#### ADDITIONAL ONTOLOGIES IN APPROPRIATE TECHNOLOGY FOR BASIC EDUCATION OF WORKING CLASS PEOPLE TO ENHANCE THEIR VOCATIONAL LIFE-LONG LEARNING



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright<sup>©</sup> by Chiang Mai University All rights reserved

GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
AUGUST 2015

#### ADDITIONAL ONTOLOGIES IN APPROPRIATE TECHNOLOGY FOR BASIC EDUCATION OF WORKING CLASS PEOPLE TO ENHANCE THEIR VOCATIONAL LIFE-LONG LEARNING

JIRAWIT YANCHINDA

# A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN KNOWLEDGE MANAGEMENT

Copyright<sup>©</sup> by Chiang Mai University All rights reserved

### GRADUATE SCHOOL, CHIANG MAI UNIVERSITY AUGUST 2015

### ADDITIONAL ONTOLOGIES IN APPROPRIATE TECHNOLOGY FOR BASIC EDUCATION OF WORKING CLASS PEOPLE TO ENHANCE THEIR VOCATIONAL LIFE-LONG LEARNING

#### JIRAWIT YANCHINDA

## THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN KNOWLEDGE MANAGEMENT

Examination Committee:	Advisory Committee:
Anchan Chorpapany Chairman	Advisor
(Dr.Anchan Chomphupoung)	(Asst.Prof.Dr Pitipong Yodmongkol)
Miliya Rutamponon Member	Wint Could Co-advisor
(Prof.Emeritus Dr.Nithiya Rattanapanone)	(Asst.Prof.Dr.Nopasit Chakpitak)
WM Chm Member	Napapon Reeveetationadvisor
(Asst.Prof.Dr.Nopasit Chakpitak)	(Dr.Napaporn Reeveerakul)
Napaporn Reeveerakul Member	
(Dr.Napaporn Reeveerakul)	
Teerapoin Saehea Member	
(Dr.Teeraporn Sae-Haew)	

29 August 2015 Copyright © by Chiang Mai University

#### To

#### My Parents

Thank you for your unconditional support with my educations.

I am honored to have you as my parents, Vithya and Rattana.

Thank you for giving me a chance to prove and improve myself through all my walks of lifetime. Thank you for believing in me for allowing me to further my educations.

I love you the most.

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright<sup>©</sup> by Chiang Mai University All rights reserved

#### **ACKNOWLEDGEMENTS**

I would like to thank with my sincere sense of gratefulness to my advisor, Assist. Prof. Dr. Pitipong Yodmingkol, and Assist. Prof. Dr. Nopasit Chakpitak who offered me the opportunity of my education and provided the continuous useful guidance, understanding, great encouragement and the technical support throughout the period of my Ph.D. studying. I am also deeply appreciative to my co-advisor, Lect. Dr. Napaporn Reeveerakul for their helpful advice, comments, continuous encouragement, understanding and valuable suggestions of this thesis.

I am greatly appreciated Dr. Anchan Chomphupoung and Professor Emeritus Dr. Nithiya Rattanapanone for being my examiner and for their valuable suggestions and comments that strengthened my thesis.

I would like to acknowledge College of Arts, Media and Technology, Chiang Mai University for research facilities.

I would like to thank the community people at the Phrao District, Chiang Mai Province for providing the information and practical local knowledge, and also facilitating my research work. Unforgettably, special thanks to my friends at Phrao district for their help, encouragement, friendship and joyful moment during my study.

Finally, I wish to express my profound gratitude and appreciation to my family for their love, generous standing and loving support throughout my life.

All rights reserved

Jirawit Yanchinda