

TABLE OF CONTENTS

	Page
Acknowledgements	iii
Abstract in Thai	iv
Abstract in English	v
Chapter 1 Introduction	1
Chapter 2 Basic Concepts and Preliminaries	8
2.1 Basic Definitions	8
2.1.1 Metric Spaces	8
2.1.2 Banach Spaces and Hilbert Spaces	11
2.1.3 CAT(0) Spaces	16
2.1.4 Banach Limits	20
2.2 Useful Lemmas	20
Chapter 3 A Generalization of Suzuki's Lemma	23
Chapter 4 Strong Convergence of Modified Halpern Iterations in CAT(0) Spaces	29
Chapter 5 Strong Convergence of Modified Noor Iterations in CAT(0) Spaces	37
Chapter 6 Conclusion	45
6.1 A Generalization of Suzuki's Lemma	45
6.2 Strong Convergence of Modified Halpern Iterations in CAT(0) Spaces	46
6.3 Strong Convergence of Modified Noor Iterations in CAT(0) Spaces	47
Bibliography	49
Vita	53

LIST OF FIGURES

Figure		Page
2.1	Triangle inequality in the plane	8
2.2	Euclidean metric and the metric d_1	9
2.3	Parallelogram with sides x and y in the plane	15
2.4	Geodesic path joining x and y	17
2.5	Geodesic triangle	17
2.6	Figure of comparison axiom	18
2.7	A point in line segment	18
2.8	The relation of each space	19
2.9	Geometry in $CAT(0)$ space	22

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
 Copyright © by Chiang Mai University
 All rights reserved