## Universiti Teknologi MARA

## APPLYING BLENDED LEARNING APPROACH INTO I-LEARN

BY

### MOHD ZULHELMI BIN ABU HASSAN

2005731204

# THESIS SUBMITTED IN FULFILLMENT OF THE REQUIREMENTS FOR

BACHELOR OF SCIENCE (HONS) INFORMATION SYSTEM ENGINEERING FACULTY OF INFORMATION TECHNOLOGY AND QUANTITATIVE SCIENCE

OCTOBER 2007

#### **ACKNOWLEDGEMENT**

Bismillah HirRahman nirRahim
(In the name of God, Most Gracious, Most Merciful)

Alhamdulilah, praise and blessing of Allah, the Al-Mighty for granting me the will and strength to finish this research on time. Without His blessing and permission, this research could not have been completed.

In due to the completion of this study, I feel a deep sense of thankfulness to the following individuals that contributed in special ways. First and for most, I am deeply indebted to my supervisor, Cik Rosdiana binti Abd Razak for her guidance, idea, detailed review, constructive criticism, excellent advice and patience in assisting my research beginning from my proposal to the completion of this project.

I also would like to express my deep and sincere gratitude to my coordinator, Dr. Puan Wan Adilah binti Wan Adnan and Cik Rashidah binti Rawi for their guidance, support and constructive comments throughout this research.

A special thanks to my lovely family especially my beloved parents Encik Abu Hassan bin Lebam and Puan Hasnah binti Hj. Husin, thank you very much because of their ongoing support and encouragement.

Last but not least, my friends who are always helping me discussing solutions for problems that arises during the completion of the research. Thanks for inspiring me in such a means that could not be written in words.

Thank you.

### **ABSTRACT**

Blended learning is a wide term that represents learning solutions that are based on a combination of face-to-face lecturing, self-paced e-learning, and the use of various Internet-based or other technologies to deliver the learning content. This paper describes the blended learning as a combination of face-to-face interaction with e-learning. This paper reviews some of the students perception on i-learn and their perspective on blended learning. It also analyzes and identifies the comparison between blended learning and e-learning and the elements of blended learning approach. Synchronous elements such as video conference and chat program are main elements that should have in the blended learning approach. The prototype of blended learning elements has been developed and applied into i-learn system. The elements are video conference and chat program. Furthermore, the evaluation process has been conducted to evaluate the functionality of both prototypes.

### TABLE OF CONTENTS

TITI	LE							PAGE				
APP	APPROVAL											
DEC	DECLARATION											
ACK	ACKNOWLEDGEMENT											
ABS	ABSTRACT											
TABLE OF CONTENT												
LIST	LIST OF TABLES LIST OF FIGURES											
LIST												
LIST	LIST OF ABBREVIATIONS											
СНА	APTER (	ONE: INT	RODUC	ΓΙΟΝ								
1.0	Introd	uction						1				
1.1	Research Background							1				
1.2	Proble	em Statem	ent					2				
1.3	Objec	tive	of	th	ie	Resea	arch	3				
1.4	Scope		of	the		Resear	rch	3				
1.5	Signif	icant	of	tł	ne	Resea	arch	3				
1.6	Metho	odology						4				
1.7	Sumn	nary						5				
CHA	APTER T	ΓWO: LIT	FERATUI	RE REVIEV	V							
2.0	Introduction							6				
2.1	E-Lea	rning						7				
2.2	Blend	Blended Learning										
	2.2.1	Be	nefits	of	Blende	d I	earning	12				
2.3	The	Criteria	and	Elements	of	Blended	Learning	13				
	2.3.1	Live-Ev	ents					14				

	2.3.2	Self-Paced Learn	ning		15			
	2.3.3	Collaboration			16			
	2.3.4 A	Assessment			18			
	2.3.5 H	Performance Sup	port Materials		18			
	2.3.6	Skill Driven Lea	rning		19			
	2.3.7 A	Attitude Driven	Learning		19			
	2.3.8	Competency Dri	ven Learning		20			
2.4	Blended Learning vs. E-Learning							
2.5	i-Learn							
2.6	Summary							
СНА	PTER TH	IREE: RESEA	RCH APPROACH AN	ND METHODOLOG	Ϋ́Y			
3.0	Introduc		24					
3.1	Methodology							
	3.1.1 I	Problem Assessr	nent and Research Stud	y	25			
	3.1.2 I	Knowledge Acqu	uisition		25			
		26						
	3.1.4 Project Design							
		Evaluation			27			
	3.1.6 I	Data Representat	tion		28			
3.2	Summar	У			28			
СНА	PTER FO	OUR: ANALYS	IS AND FINDINGS					
4.0	Introduc	tion			29			
4.1	Definition	nition of Blended Learning						
4.2	Survey							
	4.2.1 i-Learn Perception (Section B)							
	4.2.2 Blended Learning Elements (Section C)							
	4.2.3 Overall Findings on Survey							
4.3	Comparison between Blended Learning and E-Learning							