

# **UNIVERSITI PUTRA MALAYSIA**

#### SELF-DIRECTED LEARNING BELIEFS, READINESS AND UTILIZATION OF E-LEARNING TECHNOLOGIES AMONG ENGINEERING EDUCATORS IN A MALAYSIAN PRIVATE UNIVERSITY

ASMAH ZAKARIA

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By

ASMAH ZAKARIA

Thesis submitted to the School of Graduate Studies, Universiti Putra Malaysia, in Fulfilment of the Requirements for the Degree of Doctor of Philosophy

September 2008



This thesis is dedicated to the memories of the people I loved and lost while pursuing my doctoral qualification

Allahyarham Ariff Ismail Mahmood (husband -August 2007)

Allahyarham Abdul Nasir Zakaria (brother - May 2004)

Allahyarhamah Bashah Darus (mother in law- October 2003)

"Semoga Allah mencucuri rahmat ke atas roh-roh mereka dan di masukkan ke dalam golongan orang-orang yang beriman"



Abstract of thesis presented to the Senate of Universiti Putra Malaysia in fulfilment of the requirement for the degree of Doctor of Philosophy

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#### ASMAH ZAKARIA

September 2008

#### Chairman: Professor Abu Daud Silong, Phd

Faculty: Faculty of Educational Studies

The utilization of E-learning among engineering educators in Malaysia has not been fully investigated. Thus, the two main objectives of the study were to determine utilization of E-learning technologies among engineering educators and to establish relationships between the independent variables and utilization of E-learning technologies. The independent variables were selected demography variables (age, teaching experience, academic qualifications, specialization areas, computer and Internet experience), selfdirected learning beliefs (educators' beliefs, beliefs about students' learning and facilitation beliefs) and readiness in using E-learning technologies (educators' readiness, students' readiness and organizational readiness).



This survey research used a Likert-like instrument comprised of questions designed to obtain response on self-directed learning beliefs, readiness, utilization of E-learning technologies and selected demography variables. The population for the study was 580 engineering educators teaching at Universiti Kuala Lumpur. A sample of 165 respondents was selected using stratified sampling among engineering educators teaching at all institutes of Universiti Kuala Lumpur, with the exception of UniKL-Royal College of Medicine. A total of 119 completed questionnaires were returned and used for analysis giving a 72.2 percent response rate.

Findings from the study revealed that engineering educators were average users of E-learning technologies. Using Pearson correlation analysis, significant relationships were found between teaching experience, computer and internet experience and utilization of E-learning technologies. There was no significant relationship between age and utilization of E-learning technologies. ANOVA analysis indicated significant mean differences between different academic qualifications and utilization of E-learning technologies, while specialization areas were not statistically significant.

Significant relationships were also established for educators' beliefs, beliefs about students' learning, facilitation beliefs, educators' readiness, students' readiness and organizational readiness. Multiple regression analysis indicated that these variables contributed 40.7 percent of the variance in



utilization of E-learning technologies. The most significant predictors in the regression model were educators' own readiness and educators' beliefs.

While the analyses indicated that there were significant relationships between self-directed learning beliefs, readiness and utilization of E-learning technologies, the results must be interpreted with caution. The average utilization implied that there were other possible reasons for engineering educators' decisions in utilizing or not utilizing E-learning technologies which the management of the university should investigate. Suggestions for future research include exploring other factors which may influence utilization of E-learning technologies among engineering educators, extending the study to include the students' perspectives and the implication of the introduction of outcome-based education in engineering education and its implication on utilization of E-learning technologies.



Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia sebagai memenuhi keperluan untuk ijazah Doktor Falsafah

### KEPERCAYAAN PEMBELAJARAN KENDIRI , KESEDIAAN DAN PENGGUNAAN TEKNOLOGI E-PEMBELAJARAN DIKALANGAN PENDIDIK KEJURUTERAAN DI SEBUAH UNIVERSITI SWASTA DI MALAYSIA

Oleh

#### ASMAH ZAKARIA

September 2008

#### Pengerusi: Profesor Abu Daud Silong, PhD

Fakulti: Fakulti Pengajian Pendidikan

Penyelidikan mengenai penggunaan teknologi E-pembelajaran dikalangan pendidik kejuruteraan di Malaysia masih belum dilaksanakan secara meluas. Oleh itu, dua objektif utama kajian ini ialah untuk mengetahui tahap penggunaan teknologi E-pembelajaran dikalangan pendidik kejuruteraan dan untuk mengenal pasti hubungan antara pemboleh ubah tidak bersandar dan penggunaan teknologi E-pembelajaran. Pemboleh ubah tidak bersandar ialah ciri-ciri demografi yang dipilih (umur, pengalaman mengajar, kelayakan akademik, bidang pengkhususan, pengalaman dalam penggunaan komputer dan Internet), kepercayaan pembelajaran kendiri (kepercayaan kendiri pendidik, kepercayaan terhadap pembelajaran kendiri pelajar dan kepercayaan fasilitasi) dan kesediaan dalam penggunaan



teknologi E-pembelajaran (kesediaan pendidik, kesediaan pelajar dan kesediaan organisasi).

Kajian tinjaun ini menggunakan instrumen Likert yang mengandungi soalan-soalan yang diolah untuk mendapatkan maklumbalas mengenai kepercayaan pembelajaran kendiri, kesediaan menggunakan teknologi Epembelajaran, penggunaan teknologi E-pembelajaran dan ciri-ciri demografi yang dipilih. Populasi kajian ialah 580 orang pendidik kejuruteraan di Universiti Kuala Lumpur. Sampel kajian ialah 165 orang, dipilih secara persampelan berlapis dikalangan pendidik kejuruteraan di semua institut di Universiti Kuala Lumpur, kecuali di Kolej Perubatan Diraja, Perak. Kadar soal selidik yang dikembalikan dan digunakan untuk analisis ialah 119, iaitu sebanyak 72.2 peratus.

Dapatan kajian menunjukkan penggunaan teknologi E-pembelajaran dikalangan pendidik kejuruteraan adalah sederhana. Analisa Pearson, menunjukkan pengalaman mengajar, pengalaman menggunakan komputer dan Internet berkait secara signifikan dengan penggunaan teknologi Epembelajaran. Umur didapati tidak berkait secara signifikan dengan penggunaan teknologi E-pembelajaran. Analisa ANOVA menunjukkan perbezaan min yang signifikan diantara kelayakan akademik dan penggunaan teknologi E-pembelajaran, sementara tiada perbezaan min yang signifikan diantara bidang pengkhususan yang berlainan.



vii

Kepercayaan pembelajaran kendiri pendidik, kepercayaan terhadap pembelajaran kendiri pelajar, kepercayaan fasilitasi, kesediaan pendidik, kesediaan pelajar dan kesediaan organisasi dalam menggunakan teknologi E-pembelajaran berkait secara significan dengan penggunaan teknologi Epembelajaran. Analisis regressi berbilang menunjukkan pemboleh ubah tidak bersandar yang dipilih menerangkan 40.7 peratus varians dalam penggunaan teknologi E-pembelajaran. Faktor yang paling berpengaruh ialah kesediaan pendidikan dalam menggunakan teknologi E-pembelajaran dan kepercayaan pembelajaran kendiri pendidik.

Walaupun dapatan kajian menunjukkan kepercayaan pembelajaran kendiri, kesediaan dalam menggunakan teknologi E-pembelajaran berkait secara signifikan dengan penggunaan teknologi E-pembelajaran dikalangan pendidik kejuruteraan, ia perlu diinterpretasi secara berhati-hati. Dapatan kajian yang menunjukkan penggunaan teknologi E-pembelajaran yang sederhana bererti terdapat sebab-sebab lain yang berkemungkinan menjadi penghalang kepada penggunaan teknologi E-pembelajaran dikalangan pendidik kejuruteraan yang perlu diberi perhatian oleh pihak pengurusan universiti. Antara cadangan untuk kajian akan datang ialah dijalankan kajian yang merangkumi faktor-faktor lain yang mungkin menpengaruhi penggunaan teknologi E-pembelajaran dikalangan pendidik kejuruteraan, meluaskan skop kajian untuk merangkumi pelajar kejuruteraan dan kajian



hasilan dalam penggunaan teknologi E-pembelajaran dikalangan pendidik dan pelajar kejuruteraan.



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degree. I would also like to extend my heartfelt gratitude to all my friends, many of them are also doctoral students, who have helped me during this long journey. The support and encouragement from colleagues and friends have helped me to keep my spirits up and enabled me to persist with my study even during the most difficult times.

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I certify that an Examination Committee has met on 4<sup>th</sup> September, 2008 to conduct the final examination of Asmah Zakaria on her degree of Doctor of Philosophy thesis entitled "Self-directed Learning Beliefs, Readiness and Utilization of E-learning Technologies among Engineering Educators in a Malaysian Private University" in accordance with Universiti Putra Malaysia (Higher Degree Act) 1980 and Universiti Putra Malaysia (Higher Degree) Regulations 1981. The Committee recommends that the candidate be awarded the degree of Doctor of Philosophy.

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This thesis was submitted to the Senate of Universiti Putra Malaysia and has been accepted as fulfilment of the requirement for the degree of Doctor of Philosophy. The members of the Supervisory Committee were as follows:

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Date: 12 February 2009



## DECLARATION

I hereby declare that the thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously, and is not concurrently submitted for any other degree at Universiti Putra Malaysia or at any other institution.

## ASMAH ZAKARIA

Date: 2 January 2009



## TABLE OF CONTENTS

# Page

DEDICATION	ii
ABSTRACT	iii
ABSTRAK	vi
ACKNOWLEDGEMENT	х
APPROVAL	xii
DECLARATION	xix
LIST OF TABLES	xix
LIST OF FIGURES	xxi
LIST OF APPENDICES	xxii
LIST OF ABBREVIATIONS	xxiii

### CHAPTER

1	INT	RODUCTION	1	
	1.1	Overview of E-learning		
		1.1.1 E-learning Development in Higher Education	3	
		in Malaysia		
		1.1.2 E-learning Technologies	6	
	1.2	Background of the Problem	8	
		1.2.1 Previous Studies on Adoption and Utilization	9	
		of E-learning Technologies		
		1.2.2 Learning Beliefs and E-learning	13	
		1.2.3 Self-directed Learning Beliefs	15	
		1.2.4 Readiness for E-learning	17	
		1.2.5 E-learning at University Kuala Lumpur	18	
	1.3	Statement of the Problem	26	
	1.4	Objectives of the Study		
	1.5	Research Questions	31	
	1.6	Hypotheses		
	1.7	Significance of the Study		
	1.8	Limitations of the Study	36	
	1.9	Definitions of Terms		
2	LITE	ERATURE REVIEW	42	
	2.1	E-learning	42	
		2.1.1 Definitions and Concepts	42	
		2.1.2 E-learning Technologies	45	
		2.1.3 Reasons for E-learning	51	
	2.2	Technology Adoption in Higher Education	55	
		2.2.1 Rogers' Diffusion of Innovation	56	
		2.2.2 Theory of Reasoned Action	57	



	2.2.3	Theory of Planned Behaviour	58
	2.2.4	The Technology Acceptance Model	59
	2.2.5	Adoption of E-learning Technologies among	61
		Engineering Educators	
2.3	Utiliza	ation of E-learning	63
	2.3.1	Previous Studies on Utilization of E-learning	67
		Previous Studies on E-learning among	71
		Engineering Educators	
2.4	Belief	fs	75
2.5	Educa	ators' Beliefs about Teaching and Learning	79
2.6	Defin	ing Self-directed Learning Beliefs	83
	2.6.1	Self-directed Learning as a Process	83
	2.6.2	Self-directed Learning as a Process and	88
		Personal Characteristics	
	2.6.3	Self-directed Learning as Personal	89
		Characteristics	
	2.6.4	Self-directed Learning in Formal Education	91
	2.6.5	Facilitation of Self-directed Learning	95
	2.6.6	Self-directed Learning and E-learning	102
	2.6.7	Previous Studies on Self-directed Learning	105
		and E-learning	
	2.6.8	Previous Studies on Educators' Beliefs and E-	108
		learning Technologies	
2.7	Read	iness	111
	2.7.1	Definitions and Concepts	111
	2.7.2	E-learning Readiness Models	113
	2.7.3	E-learning Readiness Framework Used in the	117
		Study	
		Previous Studies in Readiness for E-learning	129
2.8	Select	ted Demography Variables	131
	2.8.1	Age	132
	2.8.2	Level of Education	133
		Teaching Experience	133
		Specializations	133
	2.8.5	1 1 1	134
2.9	Sumr	5	134
2.10	Resea	arch Framework	137
		DLOGY	141
3.1		arch Design	141
3.2			142
3.3		study Site	142
3.4	-	lation and Sample for the Study	143
3.5	-	oling Procedure	144
3.6		amentation	147
3.7	Valid	ity and Reliability	153



3

3.8	Data (	Collection	156
3.9	Data A	Analysis	158
RES	UITS		162
		graphy of Samples	162
1.1			165
		0	166
			166
			167
		1	167
		1 1	167
4.2		-	168
		0	169
			172
		0	174
4.3			176
		0	177
	4.3.2	Students' Readiness	178
	4.3.3	Organizational Readiness	179
4.4		0	182
		e e	182
	4.4.2	Management of Learning Resources	184
	4.4.3		185
	4.4.4	Online Laboratory	185
4.5	Mean		185
4.6		о о	187
	Varia	bles and Utilization of E-learning Technologies	
4.7	Relati	onships between Self-directed Learning Beliefs	189
	and U	Itilization of E-learning Technologies	
4.8	Relati	onships between Readiness and Utilization of	190
	E-lear	ning Technologies	
4.9	Regre	ssion Analysis	191
SUM	IMARY	DISCUSSION RECOMMENDATIONS	195
5.1	Summ	nary of the Study	195
5.2		5	197
5.3			200
	5.3.1	Utilization of E-learning Technologies	200
		8	202
	5.3.3	0 0	205
		0	
	5.3.4	0 0	208
		Technologies	
	5.3.5	Most Significant Predictor Variables	212
	<ul> <li>3.9</li> <li><b>RES</b></li> <li>4.1</li> <li>4.2</li> <li>4.3</li> <li>4.4</li> <li>4.5</li> <li>4.6</li> <li>4.7</li> <li>4.8</li> <li>4.9</li> <li><b>SUM</b></li> <li><b>ANI</b></li> <li>5.1</li> <li>5.2</li> </ul>	3.9Data $4$ RESULTS $4.1$ $4.1.1$ $4.1.2$ $4.1.3$ $4.1.4$ $4.1.5$ $4.1.6$ $4.2$ $4.1.6$ $4.2$ $4.2.1$ $4.2.2$ $4.2.3$ $4.3$ $4.3$ $4.3$ $4.4$ $4.5$ $4.6$ $4.6$ $4.7$ $4.6$ $4.7$ $4.6$ $4.7$ $4.8$ $4.6$ $4.7$ $4.8$ $4.6$ $5.1$ $5.1$ $5.3$ $5.3.1$ $5.3.1$ $5.3.2$ $5.3.3$ $5.3.4$	<ul> <li>3.9 Data Analysis</li> <li><b>RESULTS</b></li> <li>4.1 Demography of Samples <ul> <li>4.1.1 Age</li> <li>4.1.2 Teaching Experience</li> <li>4.1.3 Gender and Academic Qualifications</li> <li>4.1.4 Specializations</li> <li>4.1.5 Computer Experience</li> <li>4.1.6 Internet Experience</li> </ul> </li> <li>4.1.6 Internet Experience</li> <li>4.2 Self-directed Learning Beliefs <ul> <li>4.2.1 Educators' Beliefs</li> <li>4.2.2 Beliefs about Students' Learning</li> <li>4.2.3 Facilitation Beliefs</li> </ul> </li> <li>4.2 Beliefs about Students' Learning <ul> <li>4.3 Readiness in Using E-learning</li> <li>4.3.1 Educators' Readiness</li> <li>4.3 Organizational Readiness</li> </ul> </li> <li>4.4 Utilization of E-learning Technologies <ul> <li>4.4 Online Laboratory</li> </ul> </li> <li>4.5 Mean Differences between Selected Demography Variables and Utilization of E-learning Technologies</li> <li>4.6 Relationships between Selected Demography Variables and Utilization of E-learning Technologies</li> </ul> <li>4.7 Relationships between Selected Demography Variables and Utilization of E-learning Technologies</li> <li>4.8 Relationships between Selected Demography Variables and Utilization of E-learning Technologies</li> <li>4.8 Relationships between Selected Demography Variables and Utilization of E-learning Technologies</li> <li>4.8 Relationships between Readiness and Utilization of E-learning Technologies</li> <li>4.8 Relationships between Readiness and Utilization of E-learning Technologies</li> <li>5.1 Summary of the Study</li> <li>5.2 Summary of the Results</li> <li>5.3 Discussion</li> <li>5.3.1 Utilization of E-learning Technologies</li> <li>5.3 Selected Demography Variables and Utilization of E-learning Technologies</li> <li>5.3.2 Selected Demography Variables and Utilization of E-learning Technologies</li> <li>5.3.3 Self-directed Learning Beliefs and Utilization of E-learning Technologies</li> <li>5.3.4 Readiness and Utilization of E-learning Technologies</li>



	Influencing Utilization of E-learning	
	Technologies	
5.4 Co	ntributions of the Study	214
5.4	.1 Contributions to Knowledge	214
5.4	.2 Contributions to the Field of Study	219
5.4	.3 Contributions to Practice	221
5.5 Re	commendations and Conclusions	224
5.5	.1 Recommendations for Future Research	224
5.5	.2 Conclusions	225
BIBLIOGRAPH	Y	227
APPENDICES		250
BIODATA OF STUDENT		275



## LIST OF TABLES

Table		Page
1	The Number of Minimum Samples Required from Each Institute and the Number of Questionnaires Sent	146
2	Sources for the Development of each Individual Item of Self-directed Learning Beliefs Variables	149
3	Sources for the Development of each Individual Item of Readiness and Utilization of E-learning Technologies	153
4	Reliability Analysis for the Instrument	156
5	Guilford's Rule of Thumb	161
6	Frequency Distribution for Selected Demography Variables of Engineering Educators	164
7	Frequency Distribution for Self-directed Learning Beliefs Variables	169
8	Frequency Distribution for each factor of Educators' Beliefs Variable	170
9	Frequency Distribution in Percentages for Selected Items of Educators' Beliefs Variable	171
10	Frequency Distribution for each factor of Beliefs about Students' Learning Variable	173
11	Frequency Distribution in Percentages for Selected Items of Beliefs about Students' Learning Variable	173
12	Frequency Distribution for each factor of Facilitation Beliefs Variable	175
13	Frequency Distribution in Percentages for Selected Items of Facilitation Beliefs Variable	176



14	Frequency Distribution for Readiness in Using E-learning Technologies	177
15	Frequency Distribution in Percentages for Selected Items of Educators' Readiness in Using E-learning	178
16	Frequency Distribution in Percentages for Selected Items of Students' Readiness Variable	179
17	Average Cumulative Score for each factor of Organizational Readiness Variable	180
18	Frequency Distribution in Percentages for Selected Items of Organizational Readiness Variable	181
19	Frequency Distribution for Utilization of E- learning Technologies	183
20	ANOVA Analysis for Selected Demography Variables and Utilization of E-learning Technologies	186
21	Post hoc Analysis between Different Groups of Academic Qualifications and Utilization of E- learning Technologies	186
22	Relationships between Independent Variables and Dependent Variable	188
23	Inter correlation Matrix	192
24	Multiple Regression Analysis Results	192



## LIST OF FIGURES

Figure		Page
1	Theory of Reasoned Action	58
2	Theory of Planned Behaviour	59
3	Technology Acceptance Model	60
4	Levels of Use	64
5	A Typology of Approaches to E-learning	70
6	Garrison's Comprehensive Self-directed Learning Model	87
7	Self-directed Learning Matrix	92
8	E-learning Readiness Model	115
9	Research Framework for the Study	138



# LIST OF APPENDICES

Appendix		Page
А	Questionnaire	250
В	Instrument Review Panel	262
С	Early and Late Response	265
D	Frequency Distribution in Percentages for each item of Self-directed Learning Beliefs Variables and Readiness in using E-learning Technologies	267
Е	Biodata of student	275



## LIST OF ABBREVIATIONS

ABBREVIATIONS	DESCRIPTIONS
IDEAL	Institute for Distance Education and Learning, UPM
IKTM	Institut Kemahiran Tinggi MARA (MARA Higher Vocational Institute)
MARA	Majlis Amanah Rakyat
MMU	Malaysian Multimedia University
MNRI	MARA Northrop Rice Institute
OUM	Open University Malaysia
SSI	State Secretary of Perak Incorporated
TAM	Technology Acceptance Model
TPB	Theory of Planned Behaviour
TRA	Theory of Reasoned Action
UiTM	Universiti Teknologi MARA (MARA University of Technology)
UniKL	Universiti Kuala Lumpur
UniKL-BMI	Universiti Kuala Lumpur- British Malaysian Institute
UniKL-IPROM	Universiti Kuala Lumpur-Institute of Product Design and Manufacturing Technology
UniKL-MFI	Universiti Kuala Lumpur- Malaysian France Institute
UniKL-MSI	Universiti Kuala Lumpur –Malaysian Spanish Institute
UniKL-MIAT	Universiti Kuala Lumpur- Malaysian Institute of Aviation Technology



UniKL-MIMET	Universiti Kuala Lumpur-Malaysian Institute of Marine Engineering Technology
UniKL-MIIT	Universiti Kuala Lumpur -Malaysian Institute of Information Technology
UniKL-MICET	Universiti Kuala Lumpur -Malaysian Institute of Chemical Engineering Technology
UniKL-RCMP	Universiti Kuala Lumpur -Royal College of Medicine Perak
UNITAR	Universiti Tun Abdul Razak (Tun Abdul Razak University)
UPM	Universiti Putra Malaysia

