

**AL-ADAB: ISLAMIC SEX EDUCATION COURSEWARE USING  
COGNITIVE THEORY**

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2012**

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## Abstrak

Kajian ini bertujuan untuk mencadangkan sebuah model konsep bagi pembelajaran teknologi multimedia Pendidikan Seks Islamik (PSI) berdasarkan teori kognitif yang boleh member panduan kepada rekabentuk dan pembangunan prototaip perisian PSI. Permasalahan dan kajian awal mendapati bahawa pendidikan seks merupakan isu tabu dan sensitive dalam setiap peringkat masyarakat. Walaubagaimanapun, pendidikan seks adalah penting bagi ibu bapa yang beragama Islam dalam mendidik anak, serta menjadi panduan bagi menangani masalah semasa seperti penyelewengan seksual dan seks bebas. Metodologi yang digunakan dalam kajian ini adalah gabungan daripada metodologi umum reka bentuk penyelidikan yang dicadangkan oleh Vaishnavi dan Kuechler, pada tahun 2008 dengan Reka bentuk Sistem Pengajaran. Selain itu, Proses Pembangunan Multimedia juga telah digunakan dalam fasa pelaksanaan proses penyelidikan. Dengan menggunakan elemen-elemen penting tertentu, sebuah model konsep yang menggabungkan tiga garis panduan reka bentuk yang penting, iaitu reka bentuk interaksi, reka bentuk maklumat dan reka bentuk persembahan telah dibangunkan. Garis panduan ini telah digunakan untuk membangunkan prototaip PSI. Model PSI dan prototaip perisian PSI merupakan penyumbang utama dalam kajian ini. Padaakhir proses penyelidikan, dua jenis penilaian telah dibuat. Hasilnya, penilaian pembelajaran mendedahkan bahawa prototaip PSI boleh meningkatkan pengetahuan ibu bapa terhadap pendidikan tersebut. Terdapat peningkatan yang ketara sebelum dan selepas pengguna menggunakan prototaip, sementara itu penilaian reaksi telah membuktikan bahawa prototaip ini mempunyai potensi untuk menggalakkan pembelajaran PSI dalam kalangan pengguna. Kesimpulannya, prototaip perisian PSI yang direka bentuk dan dibangunkan dengan baik mampu mengubah pengetahuan dan kesedaran terhadap sesuatu perkara yang penting. Walaubagaimanapun, terdapat batasan tertentu yang masih perlu diperbaiki pada masa akan datang, contohnya seperti menambah bilangan responden dalam kajian.

**Kata Kunci:** Pendidikan seks islamik, Reka bentuk interaksi, Reka bentuk maklumat, Reka bentuk persembahan

## **Abstract**

The purpose of this study is to propose a prototype conceptual model for Islamic Sex Education (ISE) in multimedia technology learning, the design and the development of the ISE courseware to be based on cognitive theories. Problems encountered during preliminary investigations show that sex education is a 'taboo' and a sensitive issue at every level of the society. However, sex education is important for Muslim parents to educate their children as well as, to provide some guidelines in dealing with sexual deviances and free sex problems. The methodology used in this study, is a combination of the research design proposed by Vaishnavi and Kuechler in 2008 and the Instructional Systems Design. Besides that, the Multimedia Development Processes was also used in the initial stages of the research. By employing the prominent elements, a conceptual model of the ISE was developed. It involved three prominent design guidelines, namely; interaction design, information design and presentation design. These guidelines helped develop the ISE courseware. The ISE conceptual model and its courseware prototype are the major contributions of this study, as shown in the two types of evaluation conducted. The learning evaluation revealed that the ISE courseware prototype significantly increased the parents' knowledge of the said education as measured before and after the use of the prototype, while the reaction evaluation proved that the ISE prototype has the ability to encourage ISE learning among the users. In conclusion, a well-designed and developed ISE courseware is able to improve the users' knowledge and awareness of such an important subject matter. However, certain limitations do remain, such as the number of respondents involved in this study. Hopefully it can be increased in the future.

**Keywords:** Islamic sex education, Interaction design, Information design, Presentation design

## **Acknowledgement**

In the name of Allah, the Beneficent, the Merciful

Praise be to Allah, Lord of the worlds, finally this thesis has achieved its completion. This thesis would not have been possible without the guidance and help of several individuals that contributed their valuable supports and assistance for this success.

Firstly, I would like to express my utmost gratitude to my supervisor Associate Professor Abdul Nasir bin Zulkifli for his expertise, generosity, patience and encouragement in supervising me to achieve this success. Under his excellent supervision, the preparation of the thesis has been both enjoyable and challenging. I would like also to thank my co-supervisor, Associate Professor Fadzilah binti Siraj for her precious knowledge and assistance on the way of this thesis development.

It is a pleasure for me to acknowledge the experts and parents who have been involved in this study since it is started. Additionally, my sincere thanks and gratitude goes to Ministry of Science and Technology (MOSTI) and Universiti Utara Malaysia for the financial support along the completion on this thesis.

My sincere appreciation also goes to all my family members for their immeasurable supports. Last but not the least, I would like to share the gratitude and thanks to my research colleagues and others for the supports and encouragement in achieving this Master (by Research) degree.

## Table of Contents

Permission to Use .....	i
Abstrak.....	ii
Abstract.....	iii
Acknowledgement .....	iv
Table of Contents.....	v
List of Tables .....	x
List of Figures.....	xii
List of Appendices .....	xiii
List of Abbreviations .....	xiv
<b>CHAPTER ONE: INTRODUCTION .....</b>	<b>1</b>
1.1 Overview .....	1
1.2 Research Motivation .....	1
1.3 Research Problem.....	5
1.4 Preliminary Investigation (PI).....	7
1.5 Research Questions .....	10
1.6 Research Objectives .....	11
1.7 Research Hypotheses .....	11
1.8 Research Scope .....	12
1.9 Research Contributions and Significances.....	14
1.10 Thesis Organization .....	15
<b>CHAPTER TWO: LITERATURE REVIEW .....</b>	<b>17</b>
2.1 Overview .....	17
2.2 Interactive Multimedia .....	17
2.2.1 Multimedia Learning .....	19
2.2.2 Implications of Interactive Multimedia to this Study .....	20
2.3 Characteristics of Multimedia Learning Materials .....	21
2.3.1 Interaction Design .....	22
2.3.2 Information Design .....	24
2.3.3 Presentation Design .....	24

2.3.4 Implications of Characteristics of Multimedia Learning Materials to this study.....	25
2.4 Multimedia Learning and Theories .....	25
2.4.1 The Cognitive Theory .....	26
2.4.2 Cognitive Theory of Multimedia Learning (CTML) .....	28
2.4.3 Multimedia Learning Principles .....	29
2.4.3.1 Multimedia Principles .....	29
2.4.3.2 Spatial Contiguity Principles .....	30
2.4.3.3 Temporal Contiguity Principles .....	31
2.4.3.4 Coherence Principles .....	31
2.4.3.5 Modality Principles.....	32
2.4.3.6 Redundancy Principles .....	32
2.4.3.7 Individual Differences Principles .....	33
2.4.4 Multimedia Learning and Motivation .....	34
2.4.4.1 ARCS Model of Motivation in Multimedia Learning .....	35
2.4.4.2 Gagne's Nine Events of Instructions.....	37
2.4.5 Implications of Multimedia Learning and Theories to this Study .....	39
2.5 Problem Domain Understanding.....	40
2.5.1 ISE.....	40
2.5.2 The Concept and Approach of ISE .....	42
2.5.3 Principles in ISE .....	45
2.5.3.1 Principle of Enlightenment.....	45
2.5.3.2 Principle of Threat.....	46
2.5.3.3 Principle of Binding .....	48
2.5.4 Implications of Problem Domain Understanding to this Study .....	48
2.6 Evaluation Model .....	49
2.6.1 Kirkpatrick's Four-Level Model of Evaluations.....	49
2.6.1.1 Reaction Evaluation – Instructional Motivational Material Survey (IMMS).....	51
2.6.1.2 Learning Evaluation – Pre Test and Post Test.....	53
2.6.2 Implications of Evaluation Model to this Study .....	53
2.7 Summary .....	54



<b>CHAPTER THREE: METHODOLOGY .....</b>	<b>55</b>
3.1 Overview .....	55
3.2 Research Process .....	55
3.2.1 Research Methodology .....	55
3.2.1.1 Awareness of Problem.....	56
3.2.1.2 Suggestion .....	56
3.2.1.3 Development.....	57
3.2.1.4 Evaluation .....	57
3.2.1.5 Conclusion .....	57
3.2.2 Instructional System Design (ISD) .....	57
3.2.2.1 Analysis .....	58
3.2.2.2 Design.....	58
3.2.2.3 Development.....	58
3.2.2.4 Implementation .....	59
3.2.2.5 Evaluation .....	59
3.3 Methodology of the Study.....	59
3.3.1 Awareness of Problem .....	62
3.3.2 Suggestion.....	62
3.3.3 Development .....	64
3.3.3.1 Analysis .....	65
3.3.3.2 Design.....	68
3.3.3.3 Development.....	71
3.3.3.4 Implementation .....	75
3.3.3.5 Evaluation by Experts.....	81
3.3.4 Evaluation by Users .....	81
3.3.4.1 Learning Evaluation .....	81
3.3.4.2 Reaction Evaluation.....	82
3.3.5 Conclusion .....	86
3.4 Summary .....	86
<b>CHAPTER FOUR: DESIGN AND DEVELOPMENT .....</b>	<b>88</b>
4.1 Overview .....	88

4.2 Conceptual Model of ISE Courseware Prototype .....	88
4.2.1 Interaction Design: USD .....	91
4.2.2 Information Design: Macro Design Strategies .....	97
4.2.2.1 ISE Contents .....	97
4.2.2.2 ISE Design Principles .....	101
4.2.3 Presentation Design: Micro Design Strategies .....	97
4.2.3.1 Multimedia Elements (Contents) Presentation .....	97
4.3 ISE Courseware Prototype Implementation .....	113
4.3.1 Pre-Authoring .....	113
4.3.1.1 Acquire Media .....	113
4.3.1.2 Digitize Media .....	114
4.3.1.3 Edit Media .....	114
4.3.2 Authoring .....	114
4.3.2.1 Import Media .....	115
4.3.2.2 Add Interactivity .....	115
4.3.2.3 Testing and Debugging .....	115
4.3.3 Post-Authoring .....	116
4.3.3.1 Packaging .....	116
4.4 Summary .....	116
<b>CHAPTER FIVE: EVALUATION RESULTS .....</b>	<b>117</b>
5.1 Overview .....	117
5.2 The Experimental Testing Design .....	118
5.3 Learning Evaluation: Pre Test and Post Test Results .....	119
5.3.1 Testing of Learning Evaluation Hypotheses .....	120
5.3.1.1 Testing of <i>Hypothesis 01</i> .....	120
5.3.2 Pre Test and Post Test Questions Comparison for Learning Evaluation .....	122
5.4 Reaction Evaluation: IMMS Results .....	123
5.4.1 Validity and Reliability of IMMS .....	124
5.4.2 Testing of Reaction Evaluation Hypotheses .....	125
5.4.2.1 Testing of <i>Hypothesis 02</i> .....	125
5.4.2.2 Testing of <i>Hypothesis 03</i> .....	127

5.4.2.3 Testing of <i>Hypothesis</i> <i>04</i> .....	128
5.4.2.4 Testing of <i>Hypothesis</i> <i>05</i> .....	129
5.4.3 Attributes' Comparison of IMMS Dimensions.....	130
5.4.3.1 Attention Dimension .....	131
5.4.3.2 Relevance Dimension .....	132
5.4.3.3 Confidence Dimension .....	134
5.4.3.4 Satisfaction Dimension.....	135
5.5 Discussion on the Evaluation Results .....	136
5.6 Summary .....	138
<b>CHAPTER SIX: DISCUSSION AND CONCLUSION.....</b>	<b>139</b>
6.1 Overview .....	139
6.2 The Achieved Objectives .....	139
6.2.1 The Conceptual Model of Designing and Developing the ISE Courseware Prototype.....	140
6.2.2 The ISE Courseware Prototype.....	141
6.2.3 The Users' Perception towards the ISE Courseware Prototype (The Effectiveness of the Constructed ISE Conceptual Model) .....	143
6.3 Research Contributions .....	146
6.4 The Limitations .....	148
6.5 Future Recommendations .....	148
6.6 Summary .....	149
<b>REFERENCES.....</b>	<b>150</b>

## List of Tables

Table 1.1: The Scope of Main Topics in ISE (Ulwan, 1985/2002).....	13
Table 2.1: Learning Methods Vs Learners' Rate of Understanding (Mukhti, 1999).....	18
Table 2.2: USD Notations Description .....	23
Table 2.3: Three Core Assumptions of Cognitive Theory (Mayer, 2001).....	27
Table 2.4: ARCS Model Factors and Strategies (Huang et al., 2006) .....	36
Table 2.5: Gagne's Nine Events of Instruction (Goldman, 2009) .....	38
Table 2.6: ARCS and Gagne's Nine Events (Schneider, 2007) .....	39
Table 2.7: Topics Related to Sex Education .....	41
Table 2.8: Comparison between Non-Islamic and Islamic Sex Education .....	42
Table 2.9: Comparison between Non-Islamic and Islamic Approaches for Sex Education..	43
Table 2.10: Description of Kirkpatrick's Four Model of Evaluations .....	50
Table 3.1: The Notation and Part Descriptions in the Methodology .....	60
Table 3.2: The User Role for ISE .....	66
Table 3.3: USD Notation Description of the Participation Map .....	68
Table 3.4: Task Case of the ISE Courseware Prototype .....	69
Table 3.5: Notation for ISE Courseware Prototype Activity Task Model .....	70
Table 3.6: IMMS Measurement of the Study .....	83
Table 3.7: Demographic Data of Respondents .....	84
Table 4.1: The Example of Theories' Use Based on the Conceptual Model (A) .....	92
Table 4.2: The Example of Theories' Use Based on the Conceptual Model (R) .....	93
Table 4.3: The Example of Theories' Use Based on the Conceptual Model (C).....	95
Table 4.4: The Example of Theories' Use Based on the Conceptual Model (S).....	96
Table 4.5: The ISE Contents Example .....	98
Table 5.1: Hypothesis <sub>01</sub> Paired Samples t-test Statistics .....	121
Table 5.2: Hypothesis <sub>01</sub> Paired Samples t-Test .....	121
Table 5.3: The Mean for Answers in Pre Test and Post Test .....	122
Table 5.4: Reliability of IMMS items .....	125
Table 5.5: Hypothesis <sub>02</sub> Overall Statistics .....	126
Table 5.6: Hypothesis <sub>02</sub> Independent Samples Test .....	126
Table 5.7: Hypothesis <sub>03</sub> Overall Statistics .....	127
Table 5.8: Hypothesis <sub>03</sub> Independent Samples Test .....	128
Table 5.9: Hypothesis <sub>04</sub> Overall Statistics .....	128
Table 5.10: Hypothesis <sub>04</sub> Independent Samples Test .....	129

Table 5.11: Hypothesis <sub>05</sub> Group Statistics .....	130
Table 5.12: Hypothesis <sub>05</sub> Independent Samples Test .....	130
Table 5.13: Comparison of Results for Items in the Attention Dimension .....	132
Table 5.14: Comparison of Results for Items in the Relevance Dimension .....	133
Table 5.15: Comparison of Results for Items in the Confidence Dimension .....	135
Table 5.16: Comparison of Results for Items in the Satisfaction Dimension .....	136
Table 6.1: The Hypotheses of Both Evaluations .....	146

## List of Figures

Figure 1.1: The Areas of the Study .....	10
Figure 2.1: Cognitive Theory of Multimedia (Mayer, 2001).....	29
Figure 2.2: No-Smoking Campaign (Threat) (source: <a href="http://www.infosihat.gov.my">http://www.infosihat.gov.my</a> ).....	47
Figure 2.3: "Kami Prihatin" Campaign (Threat) (source: <a href="http://www.kpwkm.gov.my">http://www.kpwkm.gov.my</a> ) .....	47
Figure 3.1: Research Methodology (Vaishnavi & Kuechler, 2008) .....	56
Figure 3.2: Research Process of the Study.....	61
Figure 3.3: The Three Prominent Elements Considered in This Study .....	63
Figure 3.4: Design Guidelines in This Study .....	64
Figure 3.5: Participation Map for the ISE Courseware Prototype .....	67
Figure 3.6: Activity Map of ISE Courseware Prototype.....	69
Figure 3.7: Activity Task Model of ISE Courseware Prototype .....	72
Figure 3.8: Example of ISE Courseware Prototype Content Model.....	73
Figure 3.9: MDP Phases .....	76
Figure 4.1: The Conceptual Model of ISE Courseware Prototype Design .....	90
Figure 4.2: A Snap-shot Screen for Enlightenment of ISE.....	102
Figure 4.3: A Snap-shot Screen of 'Vision and Awrah Care' .....	103
Figure 4.4: A Snap-shot Screen of 'Health Issue' .....	104
Figure 4.6: A Snap-shot Screen of a Story in the 'Faithful to Allah and Religion' Contents .....	106
Figure 4.7: A Snap-shot Screen of Ablution Steps in the 'Puberty' Contents .....	106
Figure 4.8: A Snap-shot Screen for Multimedia Principle Use .....	108
Figure 4.9: A Snap-shot Screen for Spatial Contiguity Principle Use.....	109
Figure 4.10: A Snap-shot Screen for Temporal Contiguity Principle Use.....	110
Figure 4.11: A Snap-shot Screen for Coherence Principle Use .....	111
Figure 4.12: A Snap-shot Screen for Modality and Redundancy Principle Use.....	113
Figure 5.1: Quantitative Data Analyses Applied in this Study .....	118
Figure 5.2: Results Obtained for Learning Evaluation .....	120
Figure 5.3: Results of the Reaction Evaluation.....	124
Figure 6.1: The ISE Courseware Prototype Designs .....	142

## **List of Appendices**

Appendix A Preliminary Investigation Questionnaires .....	158
Appendix B Learning Evaluation (Pre test and Post test) Questionnaires .....	162
Appendix C Learning Evaluation (Pre test and Post test) Results .....	173
Appendix D Reaction Evaluation Questionnaires.....	178
Appendix E ISE Courseware Prototype (Al-Adab) Interfaces .....	183

## List of Abbreviations

PI	Preliminary Investigation
ISE	Islamic Sex Education
SAW	Sallallahualaiwassalam
CBL	Computer-Based Learning
CAL	Computer-Aided Learning
CBT	Computer-Based Training
e-Learning	electronic Learning
SPSS	Statistical Package for Social Science
ISD	Instructional System Design
CTML	Cognitive Theory of Multimedia Learning
ARCS	Attention, Relevance, Confidence, Satisfaction
USD	Usage-Centered Design
STD	Sexual-Transmitted Diseases
HIV	Human Immunodeficiency Virus
SDLC	Software Development Life Cycle
ADDIE	Analysis, Design, Development, Implementation, Evaluation
CIPP	Context, Input, Process, Product
IMMS	Instructional Motivational Material Survey
MDP	Multimedia Development Processes
3D	Three Dimensional
A.S.	Alaihissalam
RAM	Random Access Memory



# CHAPTER ONE

## INTRODUCTION

### 1.1 Overview

This chapter presents some background to the motivation of the study, which then leads to the specification for the statement of the problem. A preliminary investigation (PI) was deployed in order to approve the problem which helps the formulation of the research questions and objectives of the study. It also presents a brief description of the scope and significance of the study.

### 1.2 Research Motivation

Today, the increasing economic and technology developments attained by Malaysia are undeniable. The economic developments remove social and relationship boundaries, while the internet technology creates a borderless world without any limitations and restrictions. The changes have left a deep impact to the socio-cultural and lifestyle of the society. However, the developments have critically impacted the society through the increase of social problems, including free sex and sexual deviance problems. The problems are rapidly growing in Malaysia. Hence, the government is actively taking various measures, including implementing sex education to educate the society in order to prevent them from the unwanted sexual experiences<sup>1</sup>.

Nevertheless, speculations about the education are bursting out as the sensitivity of the 'sex' term and the appropriate featured contents of the education to the society in Malaysia, particularly for Muslim parents (Rahman, 2010). Most of the current sex

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<sup>1</sup> Unwanted sexual experiences in this study refer to adultery, homosexual, prostitution (free sex), incest and other illegal (without marriage or religion prohibition) sexual activities.

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