

UNIVERSITI TEKNOLOGI MARA

ADAPTIVE WEB-BASED
LEARNING COURSEWARE
(/-MATEMATIK)
FOR STUDENT WITH
DYSCALCULIA

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ABSTRACT

Dyscalculia is the lack of ability to acquire arithmetical or mathematical or numerical skill. Student with dyscalculia have problem to understand the basic concept of mathematical problem such as addition, subtraction, multiplication, and division. This leads to understanding problem in finding the correct solution in Mathematics lesson. The teaching and learning activities involved various learning techniques including utilizing the ICT tools such as tablet and computer. However, most software provided for the teacher at school is specifically for student with learning disabilities. An adaptive web-based courseware is • designed to assist dyscalculia student in their learning. It can be both used in class and at home. A courseware conceptual model is adapted in this project and the web-based courseware is developed via a series of stages. This project is tested via a small group of low-achievers in Mathematics at a primary school.

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TABLE OF CONTENTS

	Page
AUTHOR'S DECLARATION	i
ABSTRACT	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENTS	iv
LIST OF FIGURES	vii
LIST OF TABLES	viii
CHAPTER ONE: INTRODUCTION	
1.1 Project Background	1
1.2 Problem Statement	2
1.3 Project Objectives	2
1.4 Scope of Project	3
1.5 Project Significance	3
1.6 Project Design Summary	3
CHAPTER TWO: LITERATURE REVIEW	
2.1 Introduction	5
2.2 Definition	7
2.3 Characteristics	7
2.4 Roots	8
2.5 Dyscalculia Screener	9
2.6 ICT Intervention	11
2.7 Conceptual Model for Learning Disabilities	12
2.8 Web Design for Disabilities	14
2.9 Courseware Guidelines in Malaysia	15

CHAPTER THREE: METHODOLOGY

3.1	Introduction	16
3.2	Conceptual Model	16
3.2.1	Components of The Conceptual Model	17
3.2.1.1	Associated Theories	17
3.2.1.2	Interface Design	18
3.2.1.3	Courseware Contents	18
3.3	Project Methodology	19
3.4	Planning Phase	20
3.5	Requirement Gathering Phase	21
3.5.1	Primary Data Collection	21
3.4.1.1	Interview	21
3.4.1.2	Observation	22
3.5.2	Secondary Data Collection	22
3.6	Requirement Analysis Phase	23
3.7	Design Phase	23
3.8	Development Phase	23
3.9	Evaluation Phase	24

CHAPTER FOUR: FINDINGS

4.1	Phase 1: Analysis of Interview and Observation	25
4.1.1	Interview Session 1: Discover Dyscalculia	25
4.1.2	Interview Session 2: Identify The Requirement and Features	27
4.1.3	Observation	28
4.1.4	Website Content Structure Flowchart	31
4.1.5	Use Case Diagram	32
4.2	Phase 2: Interface Design	34
4.2.1	Mockup Interface Design for Home Page	35