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

CHAPTER ONE: INTRODUCTION

CHAPTER TWO: LITERATURE REVIEW

CHAPTER THREE: METHODOLOGY

CHAPTER FOUR: FINDINGS