AN INTERACTIVE MULTIMEDIA COURSEWARE FOR MINIMUM MENTAL RETARDATION CHILDREN

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APPROVAL SHEET

This thesis entitled "**AN INTERACTIVE MULTIMEDIA COURSEWARE FOR MINIMUM MENTAL RETARDATION CHILDREN"** was prepared by HOW MING HUI and submitted as partial fulfillment of the requirements for the degree of Master of Information SystemsatUniversitiTunku Abdul Rahman.

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PERMISSION SHEET

It is hereby certified that **HOW MING HUI** (ID No: **08UEM01585**) has completed this thesis/dissertation entitled "MULTIMEDIA COURSEWARE PROTOTYPE FOR CHILDREN WITH MINIMAL MENTAL RETARDATION" under the supervision of Mr. Chang Yun Fah (Supervisor) from the Department of Mathematical and Actuarial Sciences, Faculty of Engineering and Sciences.

I hereby give permission to my supervisors to write and prepare a manuscript of these research findings for publishing in any form, if I did not prepare it within six (6) months time from this date, provided, that my name is included as one of the authors for this article. Arrangement of names will depend on my supervisors.

DECLARATION

I hereby declare that the dissertation 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 or concurrently submitted for any other degree at UTAR or other institutions.

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Date _____22 September 2011_____

AN INTERACTIVE MULTIMEDIA COURSEWARE FOR MINIMUM MENTAL RETARDATION CHILDREN

By

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ABSTRACT

AN INTERACTIVE MULTIMEDIA COURSEWARE FOR MINIMUM MENTAL RETARDATION CHILDREN

How Ming Hui

The use of interactive multimedia courseware to enhance teaching and learning is common due to the effectiveness of software and simulation learning compared to traditional methods of teaching and learning. Recent researches showed that multimedia courseware in education are able to create positive impact by motivating and reinforcing learning, but there are limited researches on developing games to enhance special children's learning. Literature reviews were carried out to understand the effectiveness and advantages of using multimedia courseware in education. It is observed that these multimedia coursewares are not suitable for slow learners. This study aims to develop an interactive multimedia courseware for children with minimum mental retardation to learn Mathematic according to the special education syllabus in Malaysia. The new multimedia courseware is developed based on Object-Oriented Methodology; the prototype was tested on the group of minimum mental retardation children in SRJK (C) SAN MIN SEREMBAN. The result shows that children who used the interactive multimedia courseware performed better as compare to the control group.

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