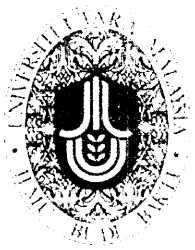

UNIVERSITI UTARA MALAYSIA

FACULTY OF INFORMATION TECHNOLOGY

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MOBILE LEARNING IN SCHOOL

A CASE STUDY ON ATTITUDE AND IMPLEMENTATION IN SEKOLAH MENENGAH KEBANGSAAN TAJAR

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MOBILE LEARNING IN SCHOOL

A CASE STUDY ON ATTITUDE AND IMPLEMENTATION

IN SEKOLAH MENENGAH KEBANGSAAN TAJAR

A thesis submitted to the Faculty of Information Technology in partial fulfillment of the requirement for the degree

Master of Science (Information Technology), Universiti Utara Malaysia

By

Amran Bin Haji Mahadi

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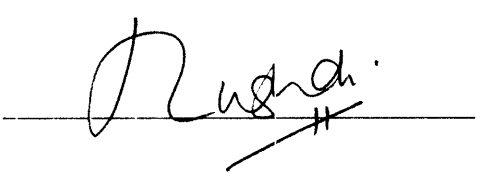
(Signature) : 

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ABSTRAK (BAHASA MELAYU)

Kajian ini dijalankan dengan tujuan untuk mengenalpasti sikap guru dan pelajar di Sekolah Menengah Kebangsaan Tajar terhadap pembelajaran secara bergerak (Mobile Learning). Sikap yang ingin dikaji ialah ke arah penerimaan untuk menggunakan 'pembelajaran secara bergerak' sebagai satu kaedah untuk mendapatkan maklumat melalui komputer riba yang mempunyai sambungan tanpa wayar. Kajian ini juga akan mencadangkan bagaimana untuk mewujudkan 'persekitaran tanpa wayar' di sekitar kawasan sekolah bagi melaksanakan 'pembelajaran secara bergerak' ini.

Seramai 190 orang responden telah dipilih yang terdiri daripada 10 orang guru dan 180 orang pelajar telah dipilih untuk menjawab soal selidik.. Setiap responden telah diberi soal selidik yang telah diadaptasi daripada kajian Davis (1989) dan Morris dan Dillon (1997) sebagai instrumen untuk mengumpulkan data yang diperlukan. Untuk kajian ini, setiap respoden diberi penerangan dan demonstrasi mengenai makna 'pembelajaran secara bergerak' dan responden juga diberi peluang untuk melayari internet untuk mencari, mendapat dan memuat turun maklumat berkaitan pelajaran yang dipelajari.

Hasil keputusan soal selidik yang diterima mendapati, setiap responden mempunyai sikap ke arah untuk menerima dan mengguna 'pembelajaran secara bergerak' di dalam pengajaran dan pembelajaran di dalam kelas. Daripada analisis yang dilakukan didapati juga kebergunaan (usefulness) dan kesenangan untuk diguna (ease of use) 'pembelajaran secara bergerak' mempengaruhi sikap pengguna untuk menggunakannya.

ABSTRACT (ENGLISH)

The purpose of this research is to identify the attitude of teachers and students of Sekolah Menengah Kebangsaan Tajar towards Mobile Learning. The attitude is based on their acceptance to use mobile learning as one method to retrieved information using lap top with wireless capabilities. This research also would recommend on how to setup a wireless environment in the school area in order to implement Mobile Learning.

190 participants that consists 10 teachers and 180 students were selected to answer the questionnaire. Each respondent were given the questionnaire which was adapted from Davis (1989) and Morris and Dillon (1997) as an instruments to gather the required data. For this study, each respondent were given an explanation and demonstration on Mobile Learning and they also were given the opportunity to surf the internet to find, to get and to download information regarding their lesson.

From the findings, it shows that each respondent has an attitude to accept and to use Mobile Learning to retrieved information during the process of teaching and learning in class. Based on the analysis also show that the usefulness and ease of use factor has a positive relationship with their attitude towards using Mobile Learning in conducting lesson.

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TABLE OF CONTENTS

Page

CHAPTER 2: LITERATURE REVIEW

CHAPTER 3: RESEARCH METHODOLOGY

CHAPTER 6: DISCUSSION AND CONCLUSION

APPENDICES

LIST OF TABLES

LIST OF FIGURES

LIST OF ABBREVIATIONS

E-Commerce	Electronic Commerce
E-Learning	Electronic Learning
ETEMS	English Teaching for Mathematic and Science
GITN	Government IT Network
ICT	Information and Communication Technology
LAN	Local Area Network
LCD	Liquid Crystal Display
M-Commerce	Mobile Commerce
Mbps	Megabit per second
MECM	Ministry of Energy, Communications and Multimedia
MoE	Ministry of Education
PC	Personal Computer
PDA	Personal Data Assistant
PEU	Perceived Ease of Use
PU	Perceived Usefulness
SMK	Sekolah Menengah Kebangsaan
SPSS	Statistical Package for Social Science
TAM	Technology Acceptance Model
USB	Universal Serial Bus
UTAUT	Unified Theory of Acceptance and Use of Technology
WLAN	Wireless Local Area Network
WIFI	Wireless Fidelity

CHAPTER ONE

THE AREA OF CONCERN AND THE MOTIVATION OF THE STUDY

This chapter gives an overview of the technology involved in education and how technology can made a lot changes in it. The problems statements, objectives, scope of research and the school background are discuss in this chapter.

1.0 Introduction

Technology has brought a lot of changes in our life. The emergence of the internet has made a lot of changes in our daily routines as a worker, teacher, student etc. From e-commerce to m-commerce, we are given a new way to manage our daily routines by a clicking of a mouse or through mobile phone or handheld. This also goes to the education sector; we were introduced to e-learning and virtual classroom. Now e-learning is also are going through to the same changes. Mobile learning is the next step in the evolution of e-learning in the education world right now.

Mobile learning can be define as service or facility that supplies a learner with general electronic information and educational content that aids in the acquisition of knowledge regardless of location and time. This means mobile learning can be conducted by using devices in a wireless infrastructure in giving electronic information and content. The type of device basically unrestricted as long as it is wireless. The benefits of mobile learning are "anytime anywhere learning" and "learning while doing". This mean the learning process can take place anytime and anywhere as long the students or teacher are in the wireless area.

The learning process will going on while teacher doing their teaching stuff without any interference. It also will help in giving information that can help

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