USE OF M-LEARNING APPLICATION IN PROMOTING EDUCATION ACCESS: CASE OF EDUCATIONAL ADMINISTRATION AND PLANNING DEPARTMENT, UNIVERSITY OF NAIROBI

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A Research Project Submitted in Partial Fulfillment of the Requirement for the Award of Degree of Master of Education in Economics of Education

University of Nairobi

DECLARATION

The research project is my original work and has not been presented for an award

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This project is dedicated to my beloved wife Fridah Kawira and my son Ryan Dylan for their encouragement and support. It is my prayer that this work will be an inspiration and encouragement to them as they pursue their education.

ACKNOWLEDGEMENTS

undertaking of this project. I give all the glory and honor to Him. My special gratitude goes to my supervisors Dr Andrew Riechi and Mr. Ferdinand Mbeche for their diligent guidance, understanding and sharing their expertise with a lot of commitment in this research project. Also to all other lecturers in the department of Educational Administration and Planning for their contribution in preparation of the framework upon which this work was built. I am also grateful to my friends and the entire family for supporting me during this course.

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LIST OF ABBREVIATIONS

Education for All

E-Reader Electronic Reader

Information and Communications Technology

M-Learning Mobile Phone Learning

Moving Picture 3

Open and Distance Education

Personal Digital Assistant

Short Messaging Service

Statistical Programme for Social Sciences

Sub Saharan Africa

UNESCO Institute for Statistics

United Nations Educational, Scientific and Cultural

Organization

United Nations International Children's Emergency

Fund

Virtual Private Network

Third Generation

ABSTRACT

Higher education teaching and learning have been shifted from traditional classrooms to technology-supported learning environment. In the University of Nairobi, department of Education Administration and Planning, there are various alternatives from the traditional method which include; evening, school based and e-learning programs. This however has not made the department reach on its target of annual enrollments to promote education access. This study assessed the use of m-learning application in promoting education access: case of the department of Educational Administration and Planning, University of Nairobi. The study was guided by the following objectives: To determine the extent to which social media chatting platform is being used, to examine how social media page discussion is being used and to assess the extent to which Short Messaging Service (SMS) texting is being used to promote education access in the senartment of Educational Administration and Planning in the University of Sarobi. The study employed case study as the research design and is built on semand theory. The target population for this study was master of education madents in the department. The study used simple random sampling and surposive sampling. This study used questionnaires, interview schedules and evation schedules for students as tools of data collection. Descriptive mustics were used and data analysis and results presented using frequency tables, araphs, percentages and pie charts. The study concluded that all the students admitted in the masters program possessed a mobile device with majority using Stexting service, internet and more specifically social media sites and emails. the first objective, the study revealed that to a very large extent social media chatting platform is being used to promote education access in the department. Majority of the students in the department use facebook chart, twitter handle, malk and yahoo messenger applications in their mobile devices. On the second objective, the study found out that there is an extensive use of social media page discussions to promote education access in the department. Majority of the students use facebook page, blogs, you tube and emails frequently generally and for educational purposes. On the third objective, the study concluded that to a very large extent, the students in the department use SMS texting service. This demonstrates that M-learning application is being used to a large extent in the department as a blended way of instruction hence accounting for the current enrollments to some extent. This is why the study recommended that the department should launch M-learning mode of instruction to encourage more enrollments and also consider a blended mode with E-learning application that has not done any enrollments.

CHAPTER ONE

INTRODUCTION

1.1 Background of the Study

Information and Communication Technology (ICT) literate workforce is the foundation on which a nation will become a knowledge-based economy through offering a convenient, efficient and financially affordable information technology learning environment. Education is therefore a platform for equipping the nation with ICT skills in order to create dynamic and sustainable economic growth. With the popularity of Information and Communication Technologies, many people can communicate with each other by using different technologies, including mobile phones.

World Bank (2003) report on ICT and Millennium Development Goals cites the potential that Information and Communication Technology has to improve efficient transfer of knowledge needed to meet the Millennium Development Goals. The African Union (2004) in a strategic plan of the commission of African Union concur citing the potential for ICT to promote trade, improve health care, enhance good governance and make education more available. In this regard, World Bank (2003) report notes that ICT can increase access to education through distance learning, enable a knowledge network for students, train teachers, and broaden the availability of quality education materials.

UNESCO (2014) on its annual release on ICT in education, mobile learning describes mobile learning as a mode of learning that offers modern ways to support learning process through mobile devices. These devices include handheld and tablet computers, Moving Picture 3 (MP3), smart phones and mobile phones. It is an aid to formal and informal learning and thus holds enormous potential to transform the delivery of education and training. Mobile learning is emerging as the of the solutions to the challenges faced by education.

by the end of the year 2012, there were over six billion mobile phone abscriptions worldwide, and for every one person who accesses the internet from a computer two do so from a mobile device given the ubiquity and rapidly arounding functionality of mobile technologies (UNESCO, 2012).

be developing world has no access to printed knowledge, new skills, and access that could improve the quality of their lives. Inequalities in access to education continue to pose major barriers in the developing world, and the delivery of cost effective and quality education remains a persistent problem Dhanarajan, 2009).

In a study by on cell phones and Personal Digital Assistants (PDAs) for Education in Kinjo Gakuin University in Japan Chris et al. (2002) found out that mobile devices perform many of the functions of desktop computers. This is with the being usable anywhere, anytime). The researchers found cell phone email produced learning superior to desktop email, mobile web and paper. Through the moduction of m-learning in the University, the study identified an increment in emollments by over 20%.

Chana Millham (2008) established that Computer based education requires to a computer, which may be impractical especially during a commute. Mobile technology, which allows access to computer based anytime, may be a solution. In this study, Short Messaging Service was used in a macro-economics class to teach students about markets and students were given a hypothetical macro-economic situation to which were given a limited number of options as a solution. Students would SMS was the only realistic medium for distance training. The majority of those worlding information, quizzes on the material and feedback, using SMS should be provided in order to facilitate their learning. Given students' irregular schedules and the constraints of existing educational institutions in Ghana, mobile teaming helped solve the problem with increased access to education.

Both Shah et al. (2011) and UNICEF (2011) in their studies on Social media skills agree that mobile phones have played a catalytic role in the social movements that arose in North Africa and the Middle East in 2011. Arguably, the Arab Spring ranks among the most significant informal mobile learning phenomena in 2011. In their studies, thousands of youth used social media accessed via their mobile phones as a space for self identification, self assertion, contestation and mobilization around democracy, human rights and civil liberties.

The project on the establishment of the Dunia Moja project run at Stanford University Goldman (2009) found out that the use of mobile technologies to provide access to course materials was paramount. The study established that mobile device technologies enable field research and assignments, facilitate communication, interaction and knowledge sharing between students and faculty and different countries. The project took place in South Africa, Tanzania and Uganda. Dunia Moja, which means 'One World' in Swahili, was an environmental education pilot project launched in 2009. It found out that at Makerere University, Mweka College of African Wildlife Management, and University of the Western Cape, the use the cell phones to access the course web site, send text messages, and post media to mobile blogs was consequential in providing access to both information and education as a whole hence increased enrollments.

According to Anita et al. (2012), Social network sites are the fastest growing and most popular of the Internet-based technologies. Recent statistics show that many Facebook users are students and that a great deal of communication between students happens online. Many higher education institutions have started to communicate with their students via social network sites where they have set up their own Facebook page and seek to actively link with their students. Social media therefore provide opportunities for higher education institutes to increase their presence within the student community, their effectiveness in fulfilling their educational goals and increased education access.

Government of Kenya (2007) cites one of the challenges facing education as the expansion of access and equity in institutions of higher learning. At the University level, there is a serious shortage of capacity, both in public and private institutions, as only about 30 per cent of those with minimum entry requirements can be admitted. Among the strategies that are intended to address access in the universities is the introduction of open and distant learning, introduction of e-learning and blended learning as alternative delivery systems.

The Government of Kenya is committed to promoting Open and Distance Education (ODE), e-learning and virtual institutions, particularly in higher education and training. This is through training ICT educators and equipping ODE centers with ICT facilities. This is with a mission to integrate ICT in The second training for improved access, learning and administration (Republic 2006).

manual report for 2013, University of Nairobi (2013) establishes the Conversity's commitment to developing Open, Distance and E-learning materials for diversifying, enhancing and enriching their delivery modes in line with the university's vision. The University has interactive self learning materials on http://learning.uonbi.ac.ke anywhere, anytime. In a study on the preparedness of the implementation programs under e-learning in the University of Nairobi Ochogo (2012) found out that access to computers remains a big challenge in the University in e-learning implementation. The study however identified that there was a need for alternative mode of learning in the University of Nairobi, away from the traditional mode of instruction even though the level of preparedness to embrace e-learning was not up to standard.

The Department of Educational Administration and Planning launched an elearning platform for offering online Master of Education degree on 19th June 2013. This is in line with the implementation of the College's strategic plan 2013-2018. The strategic plan calls for entrenchment in the use of ICT in the College's academic and administrative functions that will ensure effective use of ICT in teaching and research. One of the objectives in the strategic plan of the University of Nairobi is to actively promote diversified modes of delivery. The strategies involved in this achievement are encouraging use of technology in teaching and promoting open and distance education in all programs (University of Nairobi, 2013).

while in 2013 it was approximately 400 Masters students. From these numbers 20 students in 2012 and 12 in 2013 managed to enroll as full time students. The department's objective is to raise enrollment by 5% annually. The bigger is the school based programme having approximately 550 out of 587 materia in 2012 and over 350 students in school based programme out of 400 in University of Nairobi, 2013). This demonstrates that the department's exhool-based and e-learning programmes.

Statement of the Problem

of Nairobi annual budget. The allocation is aimed at increasing in the University to ensure efficient usage of the amount allocated by a government. However, this amount is also not sufficient to cater for the university of Nairobi annual (University of Nairobi, 2013a). The current enrollments in the Department at Administration and Planning have since dropped and this calls for the university method of instruction to increase enrollment and generate revenue

for the University. If the enrollments go down then the government allocation to the University will be inefficient due to low rates of education access by students.

The Department of Education Administration and Planning objective to raise the enrollments by 5% has not been achieved because from 2012 the enrollment was rise to over 616 students for masters demonstrating a drop by approximately Consequently, in 2012 over 93% and in 2013 over 87% could only afford to excess education during school holidays. This demonstrates how the traditional enhod of instruction is slowly fading away and there is need to embrace on the learning technologies where m-leaning is critically consequential. E-learning that was launched on 19th June 2013 has not done any curollments yet on Education Program.

is anecdotal evidence that m-learning is being used in the Department of actional Administration and Planning. This is facilitated by increasing high mobile devices possession and inadequate laptop and desktop possession at the students. It is not clear the extent to which the department is using mode of instruction in promoting education access. However, there is limited on the assessment on the use of m-learning in promoting education in the department.

There is need therefore to assess the use of m-learning application in promoting execution access in Department of Educational Administration and Planning, Conversity of Nairobi.

Purpose of the Study

The purpose of the study was to carry out an assessment on the use of m-learning in promoting education access in Department of Educational Management and Planning, University of Nairobi.

Descrives of the Study

The study were:

- To determine the extent to which social media chatting platform influence
 education access in Department of Educational Administration and
 Planning in University of Nairobi
- Examine how social media page discussion affect education access in Department of Educational Administration and Planning in University of Nairobi
- To assess the extent to which Short Messaging Service (SMS) texting influence education access in the Department of Educational Administration and Planning in University of Nairobi

ILS Research questions

- The best attain the objectives the following questions were formulated;
 - To what extent is the social media chatting platform influencing education access in Department of Educational Administration and Planning in University of Nairobi?
 - Department of Educational Administration and Planning in University of
 - To what extent is the use of SMS texting being influential to education access in department of Educational Administration and Planning in University of Nairobi?

Significance of the Study

search non print knowledge. Students can integrate m-learning to normal mode of learning or those taking e-learning programs could use mobile learning when they are away from the computers or away from traditional theorem. They would also engage in discussions through social media with their modes and instructors. This would lead to an increment in the number of modes seeking higher education.

The adjaces may also benefit from the study by discovering on the new methods of discovering and new methods of disseminating knowledge. They would engage a discussion especially under the e-learning programmes and even in the methods of discovering the enrollments.

This is through incorporating mobile device learning to launch new and support the existing e-learning programs for those learners and support and access computers at a given time.

the increasing demand of education by the busy workforce which is a meeting in economics of education. This is by provision of education at any place due to m-learning ability to be used in any place.

Limitations of the study

the study was challenged by the unavailability of the respondents due to schedules. The researcher made advance appointments with the matter and ensured that at the appropriate and convenient timing, the matter and ensured was gotten. The researcher also gave the respondents a whole was give their responses comfortably.

they needed to check on their classification for fear of intimidation or the manual to the classification and explained the importance of the study to the respondents of their confidentiality in classification of the devices to the manual to the manual to the respondents of their confidentiality in classification of the devices to the manual to the m

Delimitations of the study

Studies, department of Educational Administration and Planning to the use of m-learning in promoting education access. The respondents masters' students and their class representatives because they are the participants in course content and material interaction in promoting access in the department. The study was concerned with the masters' in the department involving first year and second year in regular, school and evening modes of learning.

Basic Assumptions of the study

The study was based on the following assumptions that:

 The respondents honestly and trustfully gave the information after confidentiality and anonymity was guaranteed

- The respondents were aware and subscribe to the data bundles hence low cost of data access on the mobile devices
- Those respondents with e-readers also possessed internet enabled mobile devices for downloads and chatting

Definition of significant terms

refers to widening enrollments in education by striving to ensure that

the striving to ensure that

access refers to increasing enrollments in education by providing services or removing any actual or potential barriers that might prevent madents from equitable participation in academic programs hence leading to enrollments.

Executer refers to a device that facilitates or enhances the reading of electronic

tractions of a computer like 3G internet and an operating system capable of tractions general-purpose applications.

Social Media Chat refers to online service where a group of people sign in and get together and interact in a particular subject or topic.

Social Media Page refers to a public profile specifically created to publicize the social Media Page refers to a public profile specifically created to publicize the

Short Message Service (SMS) refers to the transmission of short text messages and from a mobile phone.

Participation refers to the enrolling at postgraduate education, performing accessfully, transiting and graduating in the university educational cycle encountries of their social economic, working schedule among other inequality

Tablet refers to a portable computer that uses a touch screen as its primary input device.

Organization of the study

The study was organized into five chapters. The first chapter entails the moduction that is dividend into the background to the study, statement of the moblem, purpose of the study, objectives of the study, research questions, significance of the study, limitations and delimitations of the study, basic manufactors of the study, definition of significant terms and organization of the

introduction, the concept of m-learning, the education access concept, social media chatting and page in education, use of SMS texting in summary of literature review, theoretical framework and conceptual

three covers the research methodology which contains the introduction,

the design, target population, sample size and sampling procedure, research

ents, validity and reliability of research instruments, data collection

entseques and data analysis techniques.

four presents the data analysis, interpretation and discussions. Chapter focuses on the summary of the study, conclusions, recommendations and sections for further research studies.

CHAPTER TWO

LITERATURE REVIEW

Introduction

this chapter, there is a clear overview of M-learning in relation to education challenges as reviewed in various studies. It is broken down to the concept the learning, education access, the use of Social Media in education, use of leating in education, summary of the reviewed literature, theoretical leaves and conceptual framework.

The concept of M-learning

dicates that m-learning is still in an evolving phase (Peng et 2009). M-learning has been defined as "e-learning using mobile devices and transmission" (Hoppe et al., 2003; Chang et al., 2003). Two important of m-learning are its ubiquity and mobility. Ubiquitous computing is computing technologies whenever and wherever they are needed and the computing technologies whenever and wherever they are needed and the defined as learning on the go (Peng et al., 2009). While e-learning is the defined as learning on the go (Peng et al., 2009). While e-learning is the defined as learning on the go (Peng et al., 2009).

(m-learning) with the focus on facilitating and extending the of the teaching and learning, such as the knowledge the information collection and exchange, the collaborative independent learning and Lifelong learning (Hine, Rentoul, & Specht,

and page, blogging and access to much non-print knowledge mostly

earch engines. Recorded audio and video clips and photos can also be

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technology-supported learning and a theory of learning that is

the by the view that learning occurs outside classrooms and lecture halls

the based upon the notion that learning cannot easily be separated from

activities, and these activities can be resources and contexts for

Instead, it is combined with personal purpose and entertainment needs in day activity (Peng et al., 2009).

The concept of education access

students from equitable participation in academic programs hence leading to enrollments. It is the ability of all people to have equal opportunity in regardless of their social class, ethnicity, place of residence or work, or pedagogical approaches to accomplish the dissemination of knowledge the diversity of social, political, cultural, economic, national and biological ands (UNESCO, 2014).

has increased from five to six million resulting in tertiary enrollment werage growth rate of 8.6% with Sub-Saharan Africa (SSA) recording the participation growth rate. Available statistics show that in SSA, mose by an annual growth rate of 10% between 2000 and 2005 Institute for Statistics, 2009).

on m-learning adoption in Iqra University in Pakistan Iqbal and

The providing education along with traditional methods. Particularly, it can be medium of interest in developing countries where the number of mobile users large. If any student fails to attend a class and he does not have access to be menet-enabled PC, he can access the information delivered in the class using mobile device. M-learning can be used to leap-frog over existing e-learning in countries in the quest to promote education access.

need for more effective teaching and learning processes geared towards

relevance which often require profound curricular and methodological

and for adequate quality assurance mechanisms. Quality assurance

should encourage improved learning processes adapted to various

of learners. They should encompass not only traditional Higher

programmes, but also borderless, private and continuing education

2500, 2009).

Use of social media chatting and page in enhancing education access

Media is categorized into six types: collaborative projects (e.g. Wikipedia), and micro blogs (e.g. Twitter), content communities (e.g. YouTube, Social Network Sites (e.g. Facebook), virtual game worlds (e.g. high many game and the librarian free online game) and virtual social worlds at Haenlein, 2010).

sechnologies; recent statistics show that many Facebook users are students a great deal of communication between students happens online (Anita & 2012).

Formosa University Taiwan Yang (2012) found out that students are enough in using mobile devices to read the assigned texts, post read and provide feedback to peers. This was done through the use of page and chat, emails, you tube and blog applications. Students also entronmental pictures and filmed authentic scenarios related to what they are in textbooks. They then shared their pictures and films via the mobile. In other words, students possess high end mobile devices and thus they relate the authentic material with the learned material.

Chisenga (2012) and Makori (2012) agree that the use of social media media and mobile devices are two of the latest technologies that academic are leveraging to enhance their overall service delivery. The mentation of social media and the use of mobile communication for service are trends that are yet to be fully embraced by academic libraries in sub-

The standard of Development Studies Ghana (2014), which is were asked to indicate whether or not they owned a mobile device, of device they owned and whether their mobile devices provide Internet as also deemed necessary to ascertain whether respondents used their mobile devices to access social media applications specifically. Nearly all of the own at least one (or more) mobile device with Internet capabilities, as them for a wide variety of purposes, including the use of social

Exert SMS texting in promoting education access

Camer et al. (2002) propose that SMS can be used to interact with influence their actions and understandings of situations. Also, uses of in higher education include: providing support, motivation and understandings and reminders (e.g. timetable changes, library loans); and terming content and revision tips.

The street of practices. As the vast majority of students in the study

matives' both use this technology and it can be argued that expect to use their studies too. That students use mobile phones supports that in that madents have easy access to m-learning devices and are fully able to use an arguage such as text messages. This finding also demonstrates that text can be used anywhere, any time by users and that it provides a purposes.

meractivity (Markett et al., 2006) and that students welcome text are perceived as timely, appropriate and personalized (Garner et al.,

and it is also a very important form of m-learning. Text messaging anywhere, anytime" access to learners and a channel for with which they are generally familiar. Text messaging related there to date covered a number of areas. However, it does not always a trace of English grammar, nor usual word spellings. For the trace was "LOL" to represent "Laugh out Loud" and "ASAP" to be a second as a second a

popularity of m-learning and popular usage of text messaging in use of text messaging has been emphasized as a form of m-learning.

per sms or in other wise 25 SMSs per one (1) Kenya shilling. Masaa ya service offered by Safaricom Limited that allows customers to get: 20 monly Ksh 5 per day, 200 SMSs for only Ksh 10 per day and 500 SMSs SMSs are constant.

Sammary of Literature Review

beace the aspect of mobility. Mobile technologies are an attractive and to maintain literacy skills and gain constant access to information. It to maintain literacy skills and gain constant access to information. It maintain of ubiquitous handheld technologies, together with wireless and networks, to facilitate, support, enhance and extend the reach of the maintain. The discussion on use of social media in education and medium of learning are key concepts that have had great studies.

the various studies and scholars input as indicated, m-learning

The second of Nairobi, Kenya.

It is also analyzed as the best practice to address the access and equity contained in University education. This study however sought to investigate the contained M-learning application specifically in post graduate education in promoting contained access in the department of Educational Administration and Planning in Contained in Nairobi, Kenya.

Theoretical Framework

mics that was first raised by French economist notably Alfred Marshall
1942 - 1942), Italian Halian Vilfredo (1848 - 1923), Soviet Eugine Slutsky
1948) and was further developed by American Kenneth Arrow (1921).

The bought at any given price over a period of time. The relationship between the price and quantity demanded has an inverse relationship. The price increases to the manded decreases and vise versa. An increased demand leads to the manded access in higher education degrees.

where the buyers will be the learners. When increased number of learners higher education then there will be increased education access. The

the ones demanding education through seeking access and equity are terms of quality education. There are various factors that will influence are also and thereafter distinguish effective demand which in this case is the arealled and thereafter admitted.

They will be providing an avenue for enrollment, carrying out the

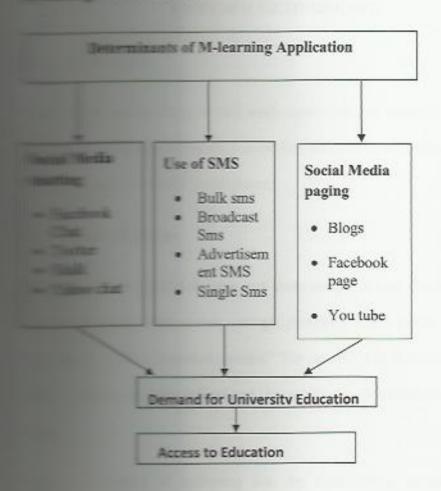
extensive will be considered appropriate due to the close link of demand of the considered appropriate due to the close link of demand of the consideration access. For education access to be affected, demand for the consideration access. Demand theory was therefore the consideration access. Demand theory was therefore the consideration access to be affected, demand for the consideration access to be affected.

Conceptual Framework

Application in promoting education access has been which through demand for educational services.

These factors are conceptualized in

The Carriers that assess the use of M-learning application in



Section where when applied, they increase the demand for the the thereased demand for university education leads to education. Increased use of Facebook Chat, twitter, gtalk, other applications will promote education access.

CHAPTER THREE

RESEARCH METHODOLOGY

less aduction

methodology in this study constituted the research design, target

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Beearch Design

was conducted using case study design. A case study is an in-depth

or or more events, settings, programs, social groups, communities,

or other "bounded systems." The case study is an investigation of one

is carefully defined and characterized by time and place (McMillan,

method of collecting data by interviewing or administering a method of collecting data by interviewing or administering a method of sample of individuals. Case study recognizes the complexity methodologies of social truths. By carefully attending to social situations, can represent something of the discrepancies or viewpoints held by (Cohen and Manion, 1989).

to Cohen and Manion (1989), case study data paradoxically, is 'strong because they are down to earth and attention holding hence providing a

and put to use; for staff or individual development, for within
the back; for formative evaluation and in educational policy making.

The back of mobile devices usage in education and there appropriateness.

The back of mobile devices usage in education and there appropriateness.

The back of mobile devices usage in education and there appropriateness.

Turget population

approximately four hundred (400) master of education students

and the department (University of Nairobi, 2013). Table 3.1 illustrates the

Master of Education students population

	Regular	Evening	School based	Total
	12	12	376	400
Date Rept ()	reluded in the st	udent populatio	n above)	18
		Total target	population	400

areasty of Nairobi (2013)

target population of 400 respondents because the 18 class

Sample Size and Sampling procedure

Magenda (2003) stipulate that when the sample size is large it is

and the adequate and quite representative. Simple random sampling was

the required sample size for all the students. Purposive sampling was

the representatives, The Krejcic

the students in the students' class representatives, The Krejcic

Magenda (1990) was used to determine the size as shown

Sample sizes for given population sizes

Newstation News	Sample Size	Population Size	Sample Size	Population Size	Sample Size
	10	100	80	4000	351
	19	150	108	5000	307
	28	200	132	10000	370
	35	250	162	20000	377
	44	300	169	50000	381
	52	400	196	100000	384
	59	1500	306		
	66	2000	322		
	73	3000	341		

Krejcie and Morgan (1990)

Table 3.2 the total number of the respondents was indicated in Table

Adopted Sample size

Cangary	Population size	Sample size
education students	400	196
Education student	18 (Included in the 400 figure above)	18
mital	400	214

Research instruments

Gay (1992) indicates that questionnaires offer considerable there administration and they give respondents freedom to express and make their suggestions. The questionnaires were advantageous they were self administered, kept the confidentiality of the respondents were advantageous accuracy of the respondents' responses. They sought their background in relation to their gender, year of study and age and opinions in relation to social media media chat and SMS texting.

deputies to get their views on the perception on mobile devices usage in the deputies. The interview focused on the overall applicability of the use of the sought the information on the current situation on how the students are their mobile devices for education purposes. According to Orodho (2008), the students allow more detailed information to be asked.

Validity of the instruments

the concept under study (Orodho, 2008). It refers to the degree to which obtained results from the analysis of data represents the phenomenon under study. This results from the analysis of data represents the phenomenon under study. This results used content validity which is a measure to which data collected using a reticular instrument represent a specific domain of indicators or content of a reticular concept. To ascertain content validity, the instruments were subjected to reallysis by a team of specialists in the area of economics of education to assess the relevance of the content used in them.

Construct validity is a measure to which data obtained from an instrument accurately represents a theoretical concept (Borg and Gall, 1999). This was

administration of counter questions that are meant to measure

Reliability of the research instruments

the many is a measure of the degree to which a research instrument yields the many result or data after repeated trial (Mugenda & Mugenda, 2003). A many result or data after repeated trial (Mugenda & Mugenda, 2003). A many result of the instrument therefore, is the one that constantly produces the expected many many many many population.

The Pearson r is used as a measure of correlation, called Pearson

Moment correlation (Mertens, 1998).

$$r = \frac{n(\sum xy) - (\sum x)(\sum y)}{\sqrt{[n\sum x^2 - (\sum x)^2][n\sum y^2 - (\sum y)^2]}}$$

results for the first test, $\sum x^2 = A$ summation of the square of first test $y = x^2 =$

giving a co-efficient r = 0.88. As indicated by Mugenda and a correlation co-efficient of 0.7 will be considered reliable.

The the analysis reliability co-efficient of 8.8 indicated that the

Term collection procedure

Council for Science and Technology. A copy of the permit was given

Department of Educational Administration and Planning,

Marrobi. The pilot study was then conducted and corrections made

Thereafter, the researcher administered questionnaires

Thereafter, the researcher administered questionnaires

Thereafter and the interviews were carried on at the convenient

Data analysis techniques

content analysis and organized into themes and patterns

was bonding to the research questions. This helped the researcher to detect and various categories in the data which was distinct from each other.

and Kombo (2002) indicate that qualitative data analysis varies from the descriptive analysis to a more elaborate technique. The analytic techniques qualitative research are a quick impassionate summary which is used in that require urgent information to make decision, thematic analysis data is analyzed thematically and also content analysis which the stically describes the content of written or spoken material.

Sciences (SPSS) version 17.0 after being sorted, edited and coded. The were thereafter analyzed using statistical techniques which will include tables, percentages, pie charts and bar charts.

CHAPTER FOUR

DATA ANALYSIS, PRESENTATION, DISCUSSIONS AND INTERPRETATION

4.1 Introduction

the description of the use of mobile learning to promote education access: a case of the use of Education Administration and Planning, University of Nairobi.

The day findings are sub-divided into sub-topics based on the objectives of the beginning with demographic characteristics of the respondents. Other the determine; the extent to which social media chatting platform, examine to determine; the extent to which social media chatting platform, examine media page discussions are being used and assess the extent to which social media page discussions are being used to promote education access the Department of Educational Administration and Planning in University of

Instruments response rate

return rate. This was facilitated by the fact the researcher gave the

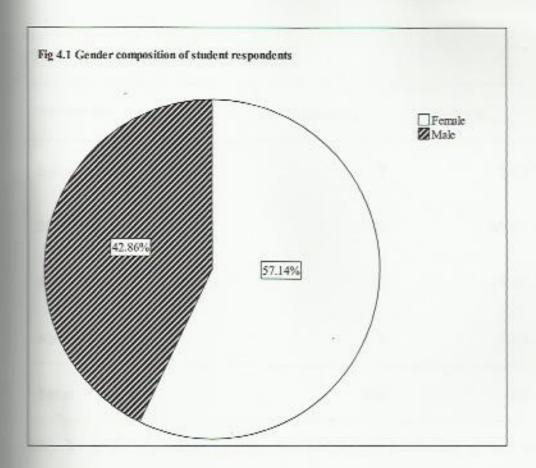
were not available to fill at that particular time, appointment was made to be presented with the questionnaire at a later date. The researcher also sent out 18 requests for interview schedules for student representatives and their deputies and 17 were honored representing a 94.44% return rate and therefore provided the researcher with adequate data for analysis, discussion and for presentation.

4.3 Demographic characteristics of the respondents

The study revealed that gender, age and year of study were very important for this study. The researcher therefore sought the demographic profile of the respondents to provide the basis of current and future gender composition, age bracket and year of study in respect to mobile device learning program.

4.3.1 Gender composition of the respondents

The student gender distribution was important to the study establish the uniqueness of the mobile devices usage and therefore the researcher sought to know the distribution of students by gender and the findings were as represented in Figure 4.1.



Majority of the respondents were female students with a 57.14% and male students constituted 42.86%. It can be urged out that the department of Educational Administration and Planning has a large population of female postgraduate students as compared to male students.

4.3.2 Age bracket of the student respondents

The study sought to group the respondents in four age brackets as below 30 years, between 30 and 39 years, between 40 and 50 years and above 50 years. The findings were as presented in Table 4.1.

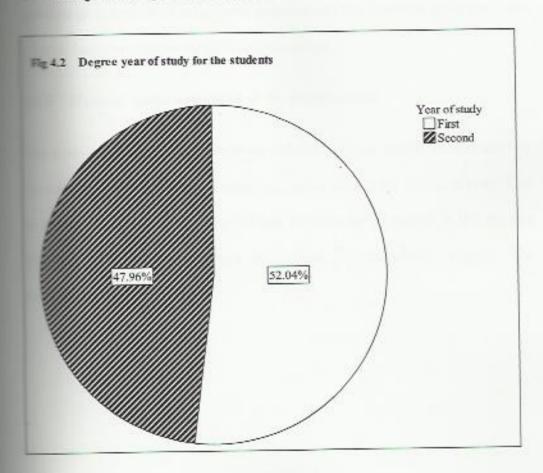
Table 4.1 Age bracket of the students

Age bracket	Frequency	Percent	
Below 30 Yrs	2	1.02	
30-39 Yrs	99	50.51	
40-50 Yrs	90	45.92	
Above 50 Yrs	- 5	2.55	
Total	196	100	

Majority of the respondents aged between 30-39 years constituting of 50.51%, followed by the category that aged 40-50 years which constituted 45.92%. This demonstrated the right group of respondents who are said to be seeking master's education in the department. Those below 30 years and above 50 years constituted of 3.57% in total demonstrating the group that is not supposed to be in the ideal masters' class. Majority of the students in the department can be urged to be the group that is actively using the mobile devices in social media sites and SMS texting. They are the majority of those who are out of the traditional usage of mobile device calling only as the main purpose of the devices.

The students year of study

study sought to find out the year of study of the respondents. This was portant to help understand the use of mobile devices for educational purposes. The findings were as presented in Figure 4.2.

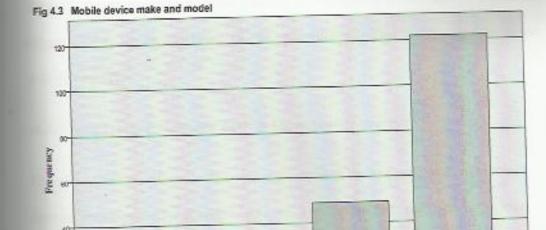


From the findings, 52.04% of the respondents were first year students undertaking their master of education program while 47.96% were second year students. This represents a close presentation of the two years hence reduced biasness in the representation of mobile device usage in the department. Even though the

of the students were in first year, their mobile device usage in social are and SMS was enhanced most likely by the fact that they had already reduction to Educational Management Information System course. This offered by the department as introduction to practical use of internet and devices for educational purposes and this therefore could have been factor to consider on mobile device usage.

43.4 Students' make and model of the mobile device

The study sought to identify the make and model of the mobile devices used by the student so as to identify the operating system used in the mobile devices. This with to deduce the applications that can be supported in the devices including exceptional certificates and virtual private network support. The findings were as in Figure 4.3.



ALCATE.

which include Alcatel, Itel, Nokia and Samsung. Samsung devices were possessed by majority taking a frequency of 122 which represents 62.2% followed by Nokia devices which had a frequency of 49 representing a 25% share. Alcatel was third represented by a frequency of 13 representing 6.6% while Itel devices followed with a frequency of 12 representing a 6.1% of the total devices possession in the study. All the 196 respondents possessed a mobile device. The class representatives in there interview confirmed that all the students in their classes possessed mobile devices and majority could connect to the internet. The class representatives could not classify all the types of mobile devices available in their class indicating that many of the devices were from Samsung Limited.

SAMSLING

NUMBER

Mobile device make and model

These findings are in line with the findings by University of Development Studies

Chana (2014) where nearly all of the respondents owned at least one or more

bile devices.

4.3.5 Importance of mobile devices for academic success

The respondents were given an opportunity to rank the importance of the mobile devices they possess for academic success. This was vital to distinguish the level disportance of use of mobile devices for academic success and other general mage. The findings were as represented in Figure 4.4.



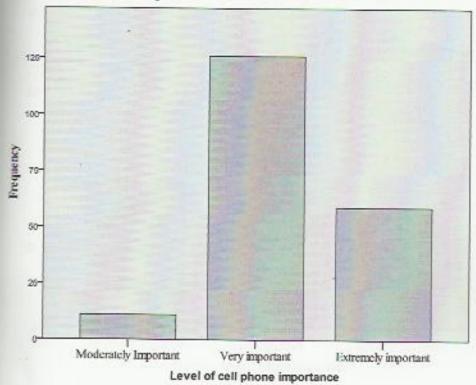


Figure 4.4 indicates that 126 respondents representing 64.3% stated that their mobile phones were very important and 59 respondents representing 30.1% stated that their mobile phones were extremely important. Of the total number of respondents 11 of them, representing 5.6% indicated that their cell phones were moderately important with none stating that their mobile phones were not very important and not at all important.

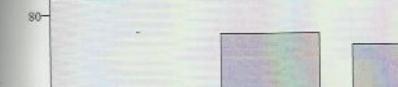
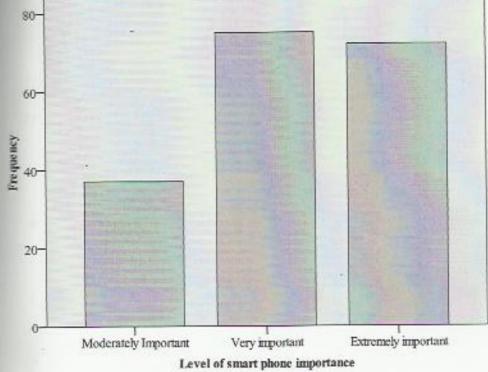
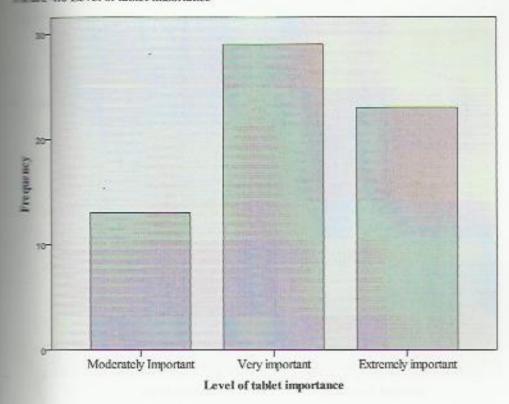


Fig 4.5 Level of smart phone importance

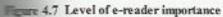


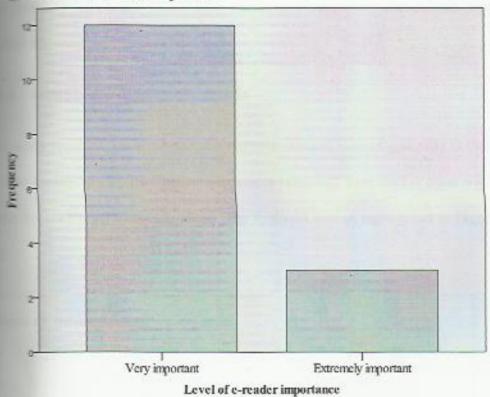
From Figure 4.5, 75 respondents representing 38.3% indicated that the use of their smart phone was very important for academic success and 72 respondents representing 36.7% said their smart phones were extremely important. In addition, 37 of the respondents representing 18.9% said the use of their smart phones was moderately important. None of those who possess a smart phone said that their devices were either not very important or not at all important. From the respondents, 12 had their devices classified as not smart phones representing a 6.1%.

Fore 4.6 Level of tablet importance



From Figure 4.6, 29 respondents representing 14.8% indicated that the tablets the possess are very important for academic success while 23 representing a 11.7% indicated that the tablet is extremely important. However, 13 respondents representing 6.6% indicated that their tablets are moderately important. None of the respondents who possessed the tablets said that they are either not at all important or not very important. The larger group of 131 respondents represented by 66.8% did not possess a tablet.





From Figure 4.7, 12 respondents representing a 6.1% who possessed e-readers indicated that their devices were very important for academic success while 3 representing a 1.5% indicated that their e-readers were extremely important for academic success. None of the respondents who possessed e-reader said that their device is of moderate importance, not very important or not at all important. Still in this category the larger group of 181 respondents representing 92.3% did not possess an e-reader.

Peng et al. (2009) stated, two important aspects of m-learning are its ubiquity mobility hence the reason why the devices' importance as ranked very portant.

43.6 Internet access on mobile devices

The study sought to know whether the respondents used internet generally in their mobile devices to identify whether the devices possessed were used in other ways from the traditional usage of calling. The feedback was as represented in Figure 4.8.

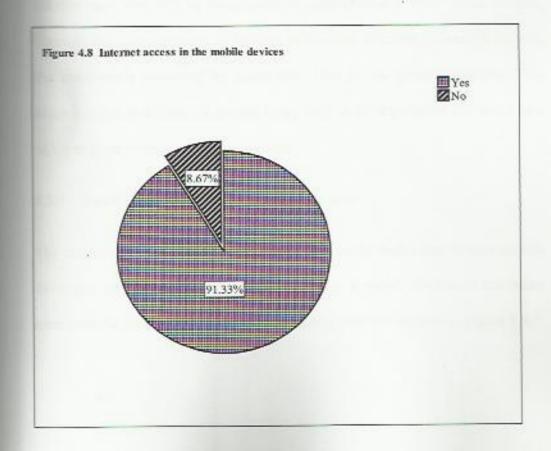
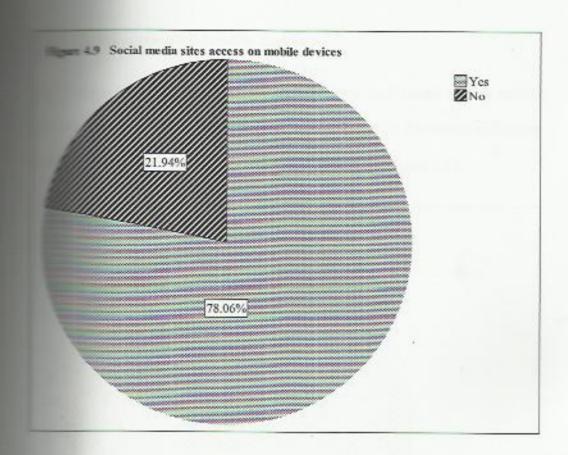


Figure 4.8, 179 respondents representing 91.33% indicated that they use memet in their mobile devices while 17 respondents representing 8.67% said they do not use interact in their mobile devices. The class representatives indicated that majority of the students in their classes' accessed interact in their mobile devices and to some extent doing assignment using them when out of college and no access to computers.

These findings agree with the study on exploring the students' efficacy on the use of m-learning in National Formosa University Taiwan where Yang (2012) found out that more than 90% of the respondents used internet in their mobile devices. Through the introduction of m-learning in National Formosa University Taiwan, the enrollments increased by more than 25% in the entire university. This illustrates that m-learning is already being used in the department and could be a factor to consider in increasing enrollment.

4.3.7 Social media sites access in mobile devices

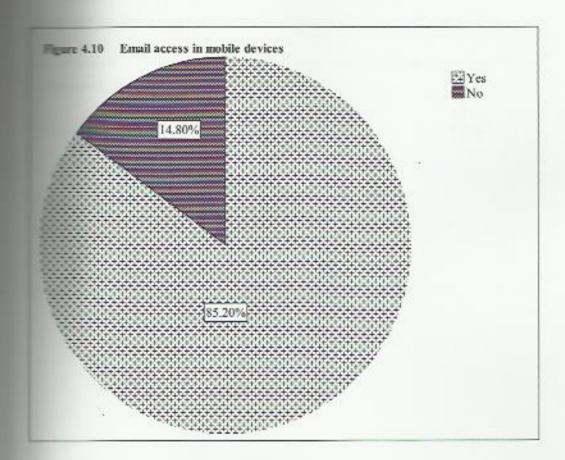
The respondents were asked whether they used social media sites in their mobile devices to be able to identify the general usage of mobile devices to use social media maybe during commute. The respondents were as indicated in Figure 4.9.



As presented in Figure 4.9, 153 respondents representing a 78.06% indicated that they use social media sites in their mobile devices while 43 respondents indicating a 21.94% indicated that they do not use the social media sites in their devices. The class representatives indicated that many of their classmates use social media with some using chatting and paging platforms for educational purposes. They further indicated that some lecturers are using you tube videos as modes of instruction and emails to a larger extent to deliver academic content. For the majority who did not have laptops, they depend on their mobile devices to access this content illustrating a very high usage of m-learning application.

Email access on the mobile devices

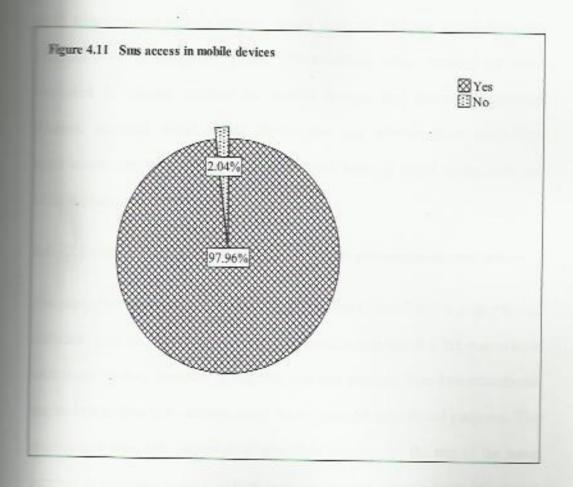
where so as to check on how whether the devices can do downloads and accept email providers. The response was as indicated in figure 4.10.



From Figure 4.10, 167 respondents representing 85.20% indicated that they use emails in their mobile devices while 29 respondents representing a 14.80% said they do not use emails in their mobile devices. This service is mostly used due to its ability to handle attachments that contain massive information.

Use of SMS service in the mobile device

The study sought to know whether the respondents used SMS service in their mobile devices to ensure that if their general usage of SMS, then they can be used for educational purposes because of the knowledge and experience in the service usage. The feedback was as presented in Figure 4.11.



Majority of the respondents as shown in Figure 4.11 taking 192 respondents, which is a 97.96% representation, indicated they use SMS service in their mobile devices while 4 respondents representing a 2.04% said that they do not use SMS

The class representatives said that majority of their classmates were using application in class for educational purposes. Also they expressed a large of usage of SMS by the university administration and lecturers to the

usage on the mobile devices agreed with the findings gotten from the cersity of Development Ghana (2014) where when respondents were usested to indicate whether the mobile devices they possessed provided ment, accessed social media applications and whether they used SMS applications; nearly all of the respondents used internet, social media sites and SMS applications in the devices.

Use of social media paging applications to promote education access

The study looked at the general and educational use of social media paging which included facebook page, blogs, you tube and emails to establish if the respondents used these services generally in that they can then translate them into educational use and those who were already using the services for educational purposes. The respondents were also requested to give their opinions on the use of the same services in mobiles devices to deliver academic content and as a mode of learning so as to gather the perceptions of the students on embracing technology to promote education access.

General usage of social media paging applications in the mobile devices

respondents were asked to indicate their usage of the applications generally trequently in a day, rarely in a day, once in a day, once in a week or never used. The findings were as indicated in Table 4.2.

Table 4.2 General usage of social media paging on mobile device

Application	Face book page		Blogs		You tube .		Emails	
Usage	Freque ncy	%	Freque ncy	%	Freque ncy	%	Freque ncy	%
Frequently in a day	64	32.7	44	22.4	7	3.6	123	62.8
Rarely in a day	46	23.5	68	34.7	0	0	4	2.0
Once in a day	. 34	17.3	20	10.2	67	34.2	16	8.2
Once in a week	21	10.7	40	20.4	56	28.6	36	18.4
Never used	31	15.8	24	12.2	66	33.7	17	8.7
Total	196	100	196	100	196	100	196	100

Table 4.2, 64 respondents use facebook page frequently in a day using a 32.7%, 46 respondents representing a 23.5% used facebook page a day while 34 respondents used the page at least once a week. Of the lamber of respondents, 44 of them representing 22.4% used blogs the day, 68 respondents taking 34.7% used blogs rarely in a day, 20 representing 10.2% indicated that they use blogs once in a day while spondents representing 20.4% used blogs in their mobile devices once in a day while one one on a day while 36 respondents representing 34.2% used you tube once in a day while 56 respondents representing a 28.6% used you tube application in their mobile devices once in a day while 36 respondents representing a 2% indicated that they are presenting a 62.8%, 4 respondents representing a 2% indicated that their devices once in a day while 36 respondents representing a 18.4% used it makes in a week.

There is a very high usage of social media paging application by the postgraduate students in the Department of Educational Administration and Planning. If this usage was translated to educational purpose usage, the department would probably have increased enrollments that would enhance education access. In a study on Cell phones and PDAs for education in Kinjo Gakuin University Chris et al., found out that increased usage of social media paging applications led to

emoliments in the University. There could be increased enrollment in the University by the busy workforce in Kenya if m-learning was adopted.

Use of social media page applications for educational purposes

considerate were asked to indicate their usage of facebook page, blogs, you considered on their mobile devices for educational purposes. The feedback in Table 4.3.

Educational usage of social media paging on mobile device

napilication	Faceboo	Facebook page		Blogs		You tube		Emails	
Usage	Freque ncy	%	Freque ncy	%	Freque ncy	%	Freque ncy	%	
Propertly to a day	65	33.2	44	22.4	8	4.1	107	54.6	
Rurely in a day	38	19.4	84	42.9	2	1.0	6	3.1	
Ohor is a day	35	17.9	0	.0	78	39.8	14	7.1	
Once in a	21	10.7	40	20.4	34	17.3	34	17.3	
Never used	37	18.9	28	14.3	74	37.8	35	17.9	
Total	196	100.0	196	100.0	196	100.0	196	100.0	

Table 4.3, 65 respondents which is 33.2% frequently use facebook page for a final purpose, 19.4% use the application rarely in a day, 17.9% once in a 10.7% once in a week while 18.9% do not use the application for educational purpose. On the blog usage for educational purposes, 22.4% frequently use it in a 42.9% rarely in a day, 20.4% once in a week while 14.3% do not use the education for educational purpose. 4.1% of the respondents frequently use you the for educational purposes, 1% rarely in a day, 39.8% once in a day, 17.3% are in a week while 37.8 did not use the application for educational purposes. A spinicant percentage of 54.6% of the respondents used email application in their three for educational purpose, 3.1% rarely in a day, 7.1% once in a day, 17.3% once in a week while 17.9% do not use the application for educational purpose.

This is a clear indication that however much majority are using the social media paging applications generally, a significant percentage also uses them for adacational purposes. As illustrated in the general usage of the applications, introduction of m-learning application would address the increasing demand for education hence promoting education access.

4.4.3 Opinion on the use of social media paging applications as a mode of learning and to deliver academic content

The respondents were asked to indicate their opinion on the usage of facebook page, blogs, you tube and emails in their mobile devices on academic content The respondents were asked to indicate if the study was very effective, effective, slightly effective, not effective or if they have an idea. The study got the feedback as indicated in Table 4.4.

Table 4.4 Opinion on social media page usage in academic content delivery

Applicati 00	Facebook page		Blogs		You tube		Emails	
	Freque ncy	%	Freque	%	Freque	%	Freque	%
Very	53	27.0	52	26.5	8	4.1	139	70.9
Effective	54	27.6	100	51.0	64	32.7	24	12.2
Sightly effective	57	29.1	10	5.1	76	38.8	10	5.1
Not effective	1	.5	1	.5	0	.0	2	1.0
No idea	31	15.8	33	16.8	48	24.5	21	10.7
Fotal	196	100.0	196	100.0	196	100.0	196	100.0

From Table 4.4, 27% of the respondent indicated that use of facebook page can be very effective on delivering academic content, 27.6% said it could be effective, 29.1 said it could be slightly effective while 15.8% said they have no idea. A

percentage of 26.5% of the respondents indicated the use of blogs and the server effective on educational content delivery, 51% said it could be slightly effective, less than 1% said it is the effective while 16.8% did not have any idea. On the use of you tube 4.1% said it would be very effective, 32.7% indicated that according the could be effective, 38.3% said it would be slightly effective while 24.5 and they did not have any idea. A very high percentage of 70.9% of the total according to the could be slightly effective, 32.2% said it would be effective, 5.1% and academic content delivery, 12.2% said it would be effective, 5.1% and it could be slightly effective, 1% said it would not be effective while did not have any idea on the effective of its use on academic success.

findings agree with the opinion given in a study on current state of mobile in Athabasca University where Traxler (2009) found out that majority of the respondents said that use of social media paging applications in their mobile access would be a very effective means of content delivery. Majority of the adents in postgraduate education prefer a flexible means of learning.

Use of social media chatting applications to promote education access

The study looked at the general and educational use of social media chatting which included facebook chat, twitter, gtalk and yahoo messenger to establish if the respondents used these services generally in that they can then translate them educational use and those who were already using the services for the services. The respondents were also requested to give their opinions the use of the same services in mobiles devices to deliver academic content as a mode of learning so as to gather the perceptions of the students on the services in mobiles devices.

4.5.1 General usage of social media chatting applications in the mobile devices

The respondents were asked to indicate their usage of the applications generally be frequently in a day, rarely in a day, once in a day, once in a week or never used. The findings were as indicated in Table 4.5.

General usage of social media chatting on mobile device

merication	Facebook chat		Twitter		Gts	Gtalk		Yahoo messenger	
Usage	Freque ncy	%	Freque	%	Freque ncy	%	Freque ncy	%	
Requestly as a day	40	20.4	39	19.9	40	20.4	92	46.9	
lardy in a	44	22.4	65	33.2	68	34.7	26	13.3	
Otice in a try	17	8.7	16	8.2	23	11.7	33	16.8	
Once in a	53	27.0	30	15.3	25	12.8	15	7.7	
Never used	42	21.4	46	23.5	40	20.4	30	15.3	
Total	196	100.0	196	100.0	196	100.0	196	100.0	

from the findings, 40 of the respondents representing a 20.4% use facebook chat frequently in a day generally, 22.4% use it rarely, 8.7% once in a day, 27% once in a week while 21.4% never use facebook chat in their mobile devices. On twitter application usage, 19.9% use the application frequently in a day, 33.2% rarely use the application in a day, 8.2% once in a day, 15.3% once in a week while 23.5% do not use twitter. When asked on the general usage of gtalk application, 20.4%

and a day, 11.7% use it once in a day, 12.8 once in a week and 20.4% application at least in their mobile devices. A significant percentage use yahoo messenger in their mobile devices frequently in a day, 13.3% as it in a day, 16.8% use the application once in a day, 7.7% use it once in a day, 15.3% do not use the application in their mobile devices.

This makes this application very user friendly and hence the reason majority use it. In a study on turning on mobile learning, global themes in the triangle of the students use mobile chat due friendly and cost effectiveness. Majority use these applications due to the treason for the high percentages in their usage.

Use of social media chatting applications for educational purposes

respondents were asked to indicate their usage of facebook chat, twitter, gtalk and yahoo messenger on their mobile devices for educational purposes. The feedback was as indicated in Table 4.6.

Educational usage of social media chatting on mobile device

. Consideration	Facebo	ook chat	Tw	itter	Gt	alk		ahoo senger	
Unage	Freque	%	Freque	%	Freque ncy	%	Freque	%	
Property maday	39	19,9	. 40	20.4	42	21.4	93	47.4	
Ramily in a tay	42	21.4	78	39.8	66	33,7	39	19.9	
Date in a by	17	8.7	2	1.0	24	12.2	24	12.2	
Dece in a	53	27.0	27	13,8	24	12.2	15	7.7	
Cover used	45	23.0	49	25.0	40	20.4	25	12.8	
lotal	196	100.0	196	100.0	196	100.0	196	100.0	

Facebook chat frequently in a day for educational purposes, 21.4% rarely in a day, 8.7% once in a day, 27% at least once in a week while 23% never used the application in their mobile devices for educational purposes. On twitter

purposes, 39.8% rarely in a day, 1% used the application at a day, 13.8% once in a week while 25% never used the application in the application in their mobile devices for educational purposes, 33.7% in a day, 12.2% once in a day and the same percentage at least once while 20.4% do not use the service in their mobile devices for purposes. While asked to indicate their usage of yahoo messenger for purposes, 47.4% indicated they use the application frequently in a day, 12.2% once in a day, 7.7% once in a week while 12.8 the service.

The can be a very effective mode of learning putting into consideration that this between students themselves and also with the lecturers.

Opinion on the use of social media chatting applications as a mode of learning and to deliver academic content

The respondents were asked to indicate their opinion on the usage of facebook chat, twitter, gtalk and yahoo messenger in their mobile devices on academic content delivery and as a mode of learning. The respondents were asked to the application was very effective, effective, slightly effective, not or if they did not have an idea. The study got the feedback as indicated

4.7 Opinion on usage of social media chatting on academic content

Captication	Facebook chat		Tw	ritter G		alk	Yahoo messenger	
Usage	Freque ncy	%	Freque ncy	%	Freque ncy	%	Freque ncy	%
Very Effective	39	19.9	67	34.2	78	39.8	96	49.0
Effective	75	38.3	29	14.8	65	33.2	49	25.0
Slightly effective	47	24.0	51	26.0	32	16,3	41	20.9
Not Effective	1	.5	0	.0	6	3.1	1	.5
lo Idea	34	17.3	49	25.0	15	7.7	9	4.6
otal	196	100.0	196	100.0	196	100.0	196	100.0

From Table 4.7, 19.9% of the respondents indicated that according to them use of facebook chat would be very effective, 38.3% said it would be effective, 24% said

The sightly effective, less than 1% said it wouldn't be effective while said they did not have an idea on its effectiveness. However, 34.2% would be effective, 26% indicated that according to them it would street slightly while 49% did not have an idea on its effectiveness in educational content. When asked their opinion about using gtalk and it would be effective, 16.3% opinionated that it would be slightly said it would be effective while 7.7% indicated that they did the an idea on its effectiveness. The study also seek to know the opinion of the effectiveness of yahoo messenger usage to deliver monal content and 49% said that it would be very effective, 25% indicated that would be effective, 20.9% said it would be slightly effective, less than 1% wouldn't be effective while 4.6% said that they did not have an idea.

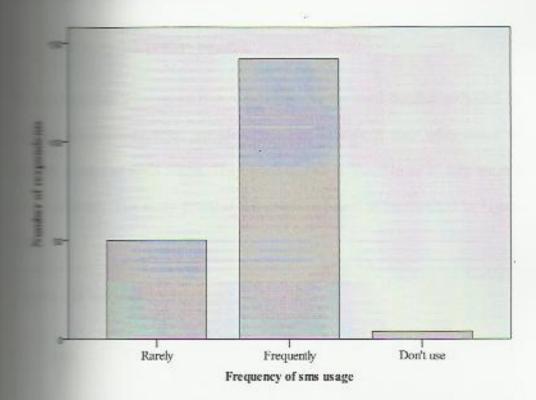
These findings are in line with the ones found out in a study on exploring the madents' attitude in National Formosa University Taiwan where Yang (2012) and out that the students were using social media sites often. In the same study, the students also said that that according to them m-learning would be very effective mode of content delivery.

Use of SMS texting in education to promote education access

generally and for educational purposes to establish if it could be used as a of educational content delivery. The respondents were also asked to their frequency in using SMS generally and for educational purposes, and their opinion on the effectiveness of using the application to deliver their content.

Frequency of SMS texting

respondents were asked to indicate how often they used SMS service as frequently or if they did not use SMS service. This was important so that the study is able to derive the respondents' behavior on SMS usage. The findings the study were as presented in Figure 4.12



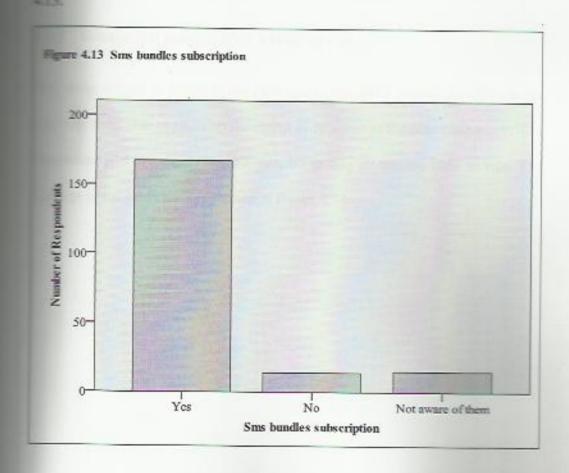
the indicated that they use SMS texting frequently, 50 use the service rarely, and only 4 respondents indicating that they do not use the SMS service.

the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. These findings are in the surrounding environment compared to calls. The surrounding environment compared to call the surrounding environment compared t

the University's enrollment after the introduction of m-learning as a self-study in the university.

Subscription to SMS bundles

telecommunication providers so as to identify if they were aware of means of SMS usage. They were to state a Yes, No or If they are not of them. The study revealed the response below as represented in Figure

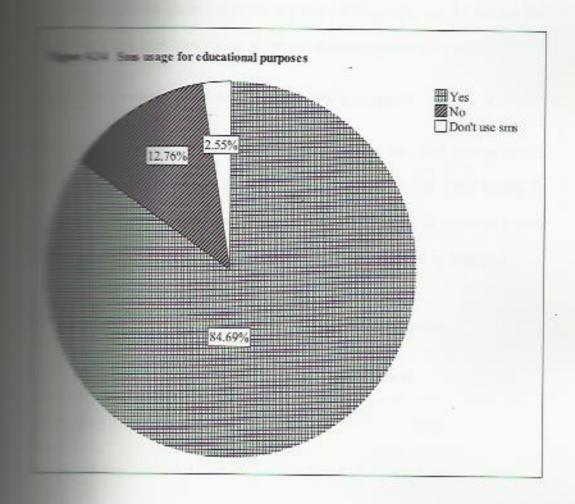


the respondents as presented in Figure 4.13, taking 167% of the second that they subscribe to the SMS bundles, 14 of the second they do not subscribe to them while 15 participants said they aware of them.

subscriptions are meant to make the application more affordable and the SMS usage per day. These findings are in agreement with the high of participants who use the SMS application generally and for educational

Educational usage of SMS texting service

The study sought to know if the participants use SMS texting for educational process to be able to establish the extent of its usage in the education sector. The process to indicate either a Yes, No or they do not use SMS service. The study were presented in Figure 4.14



texting for educational purposes, 12.76% which took 25 respondents said they use do not use SMS texting for educational purposes while 2.55% said they do not use the service.

mgh usage of SMS service generally demonstrates the significantly high usage of the application specifically for educational purposes. The high usage of the

to the majority of those who use the service and bundles hence making the service more affordable,

seems of SMS usage for educational purposes

purposes to be able to rate the behavior of SMS texting in

were to rate as frequently in a day, once in a day, once in a week

use the service. The feedback was as presented in Table 4.8

Frequency of SMS usage for educational purposes

Indicator	Frequency	Percent		
reparedy in a day	77	39.3		
war in a day	50	25.5		
we in a week	64	32.7		
mer used	. 5	2.6		
stal	196	100.0		
tal	196			

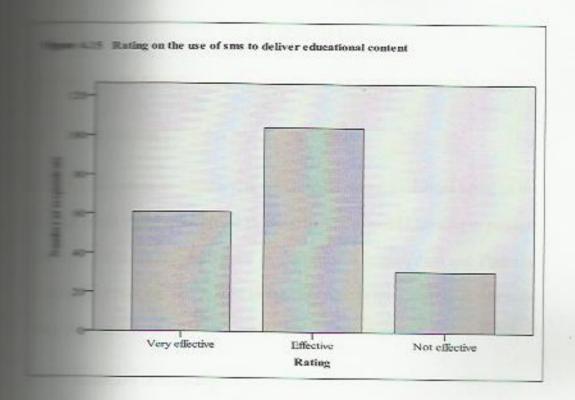
the presentation, 39.3% of the respondents indicated that they use SMS testing for educational purposes frequently in a day, 25.5% used the service at

said as a day, 32.7% used texting at least once in a week while 2.6% said

the SMS bundle subscription to make the service affordable to be build frequency of SMS usage. Due to the much content to be passed to various classes which include assignments, majority use the service at a week.

Opinion on SMS texting usage to deliver educational content

delivery of educational content so as to gather the perception of the sourcests on the SMS texting usage in education to promote education access.



The second in Figure 4.15, 61 respondents, accounting for 31.12% indicated that the second in Figure 4.15, 61 respondents, accounting for 31.12% indicated that the second in the second

and the current mode of instruction as a blended mode of instruction to ensure that
those who are constraint in missing out discussions because they can't commute
and increase on participation hence increased enrollment.

CHAPTER FIVE

MIMARY OF FINDINGS, CONCLUSION AND RECOMMENDATIONS

Introduction

This chapter focuses on summary, conclusion and recommendations based on the findings of the study which sought to assess the use of mobile learning to promote exaction access in the department of Education Administration and Planning, University of Nairobi. This is done as derived from the three objectives where the study drew its summary, conclusions and major recommendations.

5.2 Summary of the study

The purpose of the study was to assess the use mobile learning to promote education access: Case of department of Educational Administration and Planning, University of Nairobi. The study was guided by three objectives which are; To determine the extent to which social media chatting platform is being used to promote education access in Department of Educational Administration and Planning in University of Nairobi, to examine how social media page discussion is being used to promote education access in the Department of Educational Administration and Planning in University of Nairobi and to assess the extent to which Short Messaging Service (SMS) texting is being used to promote education access in the Department of Educational Administration and Planning in

University of Nairobi. The study was conducted using case study research method. The target population for the study was the master of education students in the department of Educational Administration and Planning, University of Nairobi due to the fact that education access is majorly affected by student enrollments in the University. The study used simple random sampling and purposive sampling to get the adopted sample size. The study used questionnaires to collect data from students and interview schedules for class representatives and their deputies as the main tools of data collection. Descriptive statistics were used for data analysis and results presented using tables, pie charts and bar graphs.

5.2.1 Mobile device possession and usage

Limited devices taking the lead with 122 devices amongst the 196 respondents. This was followed closely by Nokia with 49 devices while Alcatel and Itel devices shared the remaining 25. This can be attributed to the fact that Samsung Limited had many devices that are affordable and operating on android software hence suitable for chat applications and supporting downloads as well as specific certificate installations like for email providers. A significant representation of 184 respondents possessed devices that could access internet while 12 had low end devices. Further, a group of 65 respondents had tablets and 131 respondents did not possess them. The study also found out that 15 respondent possessed e-readers.

5.2.2 Level of importance of mobile devices for academic success

On the level of importance of their mobile phones, 64.3% of the respondents indicated that their mobile phones were very important. A very big presentation of the total respondents taking 147 of them which is a 75% of the respondents who possessed smart phones indicated that their smart phone were very important and to some extent extremely important for academic success. However, 18.9% said their smart phones were moderately important and none felt that smart phones were not important. Consequently, this analysis demonstrates a strong positive correlation between the use of mobile devices and academic success.

The tablet importance level scaled almost the same as with 52 respondents out of 65 who possessed the tablet saying that the devices are very important and to some extent extremely important. Only 13 respondents felt that the devices were moderately important with none feeling that they are not important. A bigger percentage, accounting for 66.8% did not possess a tablet. This indicates that however much the device could have been instrumental in academic success, many respondents did not possess it may be due to economic factors. The 15 respondents who possessed e-readers ranked the device importance to very important and to some extent extremely important.

Internet and SMS applications usage

the mobile devices, 91.33% of the respondents indicated that the mobile devices with 78.06% saying that they use media sites in the devices. Further, 85.20% use emails in their mobile and 97.96% representing a very high ranking use SMS texting in their mobile devices. This indicated a positive feedback on the study that at large group media, emails and SMS services in their mobile devices. The small media, emails and SMS services could be attributed to age and cost factors.

Social media page usage in the mobile devices

The book page, blogs and emails received high percentage on the use frequently and day, rarely in a day once in a day or once in a week. Of the total participants, use Facebook page, 87.7% use blogs and 91.4% use emails at least once in each. You tube took 66.4% as a percentage of those respondents who use the explication at least once in a week generally. Specifically on use of these explications for educational purpose, 81.2% use facebook page, 85.7% use blogs, e2.2% use you tube and 82.1% use emails at least once in a week. This demonstrates a very high ranking of social media page application for educational purposes. However much you tube is lagging behind as compared to the other three, it demonstrated a more than 50% mark hence also viable to academic content delivery.

the respondents taking 54.6% of the total participants opinionated that the respondents taking 54.6% of the total participants opinionated that it would be slightly effective hence accounting for over the attached facebook paging to have some effectiveness if at all used for content delivery. On blogs usage, 77.5% of the respondents said that that it would be effective and to some extent very effective. A further that it would be slightly effective accounting for over 82.6% of the substant who attached some level of effectiveness in using blogs for purposes. On you tube usage, 75.6% of the respondents opinionated use of the application would to some extent be effective in delivering content while 88.2% indicated the same on the use emails to delivery

Social media chat usage in the mobile devices

the general usage of the applications, 78.6% of the participants said that they see facebook chat at least once in a week closely followed by twitter usage at When asked on their general usage of gtalk application 79.6% use it at once in a week while 84.7% used yahoo messenger. This demonstrates a bright usage of social media chatting applications. Specifically on educational stage of these applications 77.04% said that they use facebook chat at least once in a week followed by twitter handle at 75%. When asked on educational use of stalk application 79.59% indicated that they use the application at least once in a

87.2% used yahoo messenger. This demonstrates that social media chat

SMS texting use in mobile devices

Turther 25.51% use the service but rarely in a day. This is a big portion of service users with only less than 2% not using the service. Majority of service users with only less than 2% not using the service. Majority of service users with only less than 2% not using the service. Majority of service users with only less than 2% not using the service. Majority of the total participants are aware and used services provided by telecommunication providers. However, 14.80% either set subscribe to the bundles or were not aware of them. This could be disregarding the service. Majority of the respondents taking 84.69% use service for educational purposes with 97.4% indicating that they use the service at least once in a week. This demonstrates that the students are currently SMS service for educational purposes. When requested to give their services are majority of the respondents taking 84.18% said that the use of SMS service would be effective and to some extent very effective for education content servery.

Conclusions

was established that all the students admitted to undertake master of in the department of Educational Administration and Planning, of Nairobi possess mobile phones and large group of them having phones. These mobile devices are very important in their academic success some extent extremely important. Majority of the students under this use internet and specifically social media sites and emails on these. This is neccessated by the fact that many of the devices possessed by the group of master of education also use SMS texting service in their mobile

The the first objective, the study concludes that to a very large extent, social media containing is being used to promote education access in the department of the containing and Planning. There is a very high usage of facebook contains, twitter, gtalk and yahoo messenger for educational purposes and therefore some students who enroll on the program anticipate that they will depend on the mobile phone usage to enhance their academic success.

On the second objective, the study concludes that there is a very high usage of social media page discussion to promote education access in the department of Educational Administration and Planning. Majority of the students use facebook page, you tube, blogs and emails in their mobile devices to facilitate educational success. There is a high affinity by the students to use these applications to transmit academic content through the mobile devices in the absence of computers.

On the third objective, the study concludes that to a very large extent SMS texting is being used by students to promote education access in the department of Educational Administration and Planning, Majority of the students in this program subscribe to SMS bundles provided by the various telecommunication providers to enable them send many SMSs at a lower cost, This mode of content delivery is highly embraced by majority of the students due to its simple nature of operation.

Finally, the study concludes that mobile learning is being undertaken in the department of Educational Administration and Planning, University of Nairobi to a very large extent but on a blended learning environment. Those either taking full time, evening or school based programs blend this learning with m-learning due to its advantageous nature. The study also concludes that students are aware and use m-learning applications frequently and for educational purposes hence a factor to consider in the current admissions as expressed by the demand theory.

Recommendations on the research findings

the department ought to blend the use of m-learning with the traditional three classroom session. This will ensure that students can use social media chatting or SMS services to seek for information.

becondly, the department needs to blend m-learning with e-learning applications

ensure that those students enrolled can use their mobile devices in place of the

puters. This will see to it that e-learning registers students even though they

are far from the computer reach every day and that the e-learning developers can

ensure that android software can access the available content.

Third, the department should negotiate prices for high end devices like tablets
with the mobile device providers to ensure that students get them at a reasonable
mice to facilitate possession. This will ensure that a majority population gets the
devices for use in the academic arena due to their advantageous nature.

media paging, social media chatting and use SMS is the mode of content delivery in the mobile devices. This will increase on the enrollments in the department bence increasing education access in the department as per the strategic plan. This will come in as the fifth mode of study in the department in the quest to address meaning demand for education by individuals who are busy and in various

Recommendations for further research

Ware studies should be done in the following areas;

The use of M-learning application in promoting education access in the usersity of Nairobi,

Secondly, the use of M-learning application in promoting education access in Kenyan public universities,

Thirdly, the effectiveness of M-leaning and E-learning blending modes of study in the University of Nairobi.

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APPENDICES

APPENDIX 1: INTRODUCTION LETTER

Jason Gikundi, University of Nairobi, P.O. Box 92, Kikuyu

1st May, 2014

The Chairperson,
Department of Education administration and planning,
University of Nairobi.

Dear Sir/Madam.

REF: PERMISSION TO CONDUCT RESEARCH

I am a Master of Education student from the University of Nairobi specializing in Economics of Education. I am carrying out a research on " The use of mobile learning to promote education access: Case of department of Educational Administration and Planning, University of Nairobi". Kindly permit me to collect data from your department. The information gathered will only be used for academic purposes and the identity of respondents will remain confidential.

Yours faithfully,	
Jason Gikundi	
Reg. No: E55/81337/20	12

University of Nairobi

APPENDIX II: STUDENT QUESTIONNAIRE

Instructions

Please put a tick to indicate your opinion as truthfully as possible to ensure validity of data collected. All the collected information will be used for this research purpose only.

SECTION A: BACKGROUND INFORMATION

- What is your gender? Male[] Female[]
- What is your age bracket? Below 30yrs[]30-39yrs[]40-50yrs[]Above 50[]
- Which year of degree study are you? 1st [] 2nd []Other, Specify

SECTION B: MOBILE DEVICE POSSESSION AND USAGE

- What is the make and model of your mobile device?
- 5. How important is the mobile devices you use as below for academic success?

Cell Phone	Smart Phone	Tablet	E-reader
	F8.		
	Cell Phone		

6.	Do you access internet on your mobile device? Yes[No[]
7.	Do you access social media sites in your mobile device? Yes[] No[]
8.	Do you access emails in your mobile device? Yes[] No[]
9.	Do you use SMS service in your phone? Yes[] No[]
SE	CTION C: USE OF SOCIAL MEDIA APPLICATION IN THE MORIL F

SECTION C: USE OF SOCIAL MEDIA APPLICATION IN THE MOBILE DEVICE

 Kindly indicate your general usage of the following applications in your mobile device.

Application	Frequently in a day	Rarely in a day	Once in a day	Once in a	Never used
Facebook Chat					
Facebook Page					
Twitter					
Blogs					
You tube					
Gtalk			-		
Yahoo messenger					
Emails					

 Kindly indicate how often you use the below applications in your phone for educational purpose

Application	Frequently in a day	Rarely in	Once in	Once in a	Never
Facebook Chat					
Facebook Page					
Twitter					
Blogs					
You tube					
Gtalk					
Yahoo messenger					
Emails					

12. What is your opinion in the use of the below application in mobile devices to deliver academic content and as a mode of learning?

Application	Very Effective	Effective	Slightly	Not effective	No idea
Facebook Chat					
Facebook Page					
Twitter			110/2		

Application	Very Effective	Effective	Slightly	Not effective	No idea
Blogs					
You tube	+				
Gtalk					1
Yahoo					
messenger					
Emails					

SECTION D: USE OF SMS TEXTING IN EDUCATION

13. How often do you use	SMS? Rarely[] Frequently[] Do not use[]
	AS bundles provided by communication providers?
22-32-32	J Not aware of them []
15. Do you use SMS for ed	ucational purposes? Yes[]No[]Do not use SMS[]
	MS messages for educational purposes?
	Once in a day [] Once in a week []
Never used []	
17. How would you rate the	use of SMS to deliver educational content?
Very Effective []	Effective [] Not Effective []

Thank you for your time

APPENDIX III: INTERVIEW SCHEDULE GUIDE FOR STUDENTS' CLASS REPRESENTATIVES

- 1. What percentage in your class possesses mobile devices?
- 2. What would be an approximate percentage of the mobiles devices in your class that could connect to the internet?
- 3. What varieties do you have in your class in terms of mobile devices?
- 4. Do students use mobile devices to get information from the internet?
- 5. Are there instances where students do their assignments by getting non print material from the mobile devices instead of computers?
- 6. Do students in your class use social media? If yes, do they use social media chatting and social media page for educational purposes?
- How is the lecturers use of mobile phone in your class for educational purposes
- 8. Do students in your class use SMS service for educational purposes?
- 9. In your own opinion, how would your class embrace use of mobile devices to enhance blended learning?
- 10. In your class, how often does the department administration use SMS service to deliver educational broadcast message and education content?
- 11. In your own opinion, would the use of mobile devices for educational purposes increase enrollments?

APPENDIX IV: RESEARCH PERMIT

the material spring of the course of course, arrangle of the consistence of the spring of the course THIS IS TO CERTIFY THAT:

Permit No : NACOSTI/P/14/6591/1789 of UNIVERSITY OF NAIROBI, 1532-200 MAIROSI, has been permitted to conduct research in Mairobi County

on the topic: THE USE OF M-LEARNING APPLICATION IN PROMOTING EDUCATION ACCESS: CASE OF THE DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND PLANNING, UNIVERSITY OF MAIRON

for the period ending: 31st July, 2014

Applicants Signature

CONDITIONS

- 1. You must report to the County Commissioner, and the County Education Officer of the area before conforming on your research; Fallers to do that may lead to the carcellation of your permit
- Ginerument Officers will not be interviewed without price appointment.
 No questionnaire will be used unless it has been.
- 4. Excavation, filming and collection of biological specimens are imbject to further permission from the relevant Covernment Ministries.
- 5. You are required to submit at least (we)?) hard copies seef meet) self copy of your final report.
- 6. The Government of Konna reserves the right to modify the nincitions of this permit including in proceedings without miles of many

Date Of Issue : 3rd June 2014 Fee Recieved (Ksh 1,000



Mational Commission of Technology & Inno Figh Secretary

Mational Commission for Science. Technology & Innovation



REPUBLIC OF KENYA



National Commission for Science, Technology and Innovation

RESEARCH CLEARANCE PERMIT

Serial Ne. A 1829

CONDITIONS: see back page

APPENDIX V: AUTHORIZATION LETTER



NATIONAL COMMISSION FOR SCIENCE, TECHNOLOGY AND INNOVATION

Telephone - 42% 20, 2233471, 2241349, 310571, 2239420 fax - 354-35-315-31, 215240 faxel secondary time and golde the least removalating golde When replying phone quote

9º Floor, Undit Herse Ultran Highway P.O. Hore 20021-00000 NAIRGER-KENNIA

Ref. No.

NACOSTI/P/14/6591/1789

3rd June, 2014

Jason Gikandi University of Nairobi P.O.Bax 30197-00100 NAIROBI.

RE: RESEARCH AUTHORIZATION

Following your application for authority to carry out research on "The use of M-Learning application in promoting education access: Case of the Department of Educational Administration and Planning, University of Natrobi," I am pleased to inform you that you have been authorized to undertake research in Natrobi County for a period ending 31" July, 2014,

You are advised to report to the Vice Chancellor, University of Nairobi, the County Commissioner and the County Director of Education, Nairobi County before embarking on the research project.

On completion of the research, you are expected to submit two hard copies and one soft copy in pdf of the research report/thesis to our office.

SAID HUSSEIN FOR: SECRETARY/CEO

Copy to:

The Vice Chancellor University of Nairobi.

The County Commissioner
The County Director of Education
Nairobi County.

National Commission for Science, Technology and Innovation is 15/2 9007: 2008 Certified