

A Study on Effect of Mobile Learning on the Students' Learning Performance

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Abstract:

The significance of mobile technology in the educational process has drawn the attention of numerous scholars to this topic, resulting in a significant body of academic research. The primary goal of this research is to investigate the impact of mobile learning on student learning performance. In this research, 600 students from Delhi/NCR were selected as a sample by simple random method. The survey method was used for this study; the researcher collected the data using a self-developed questionnaire. Data were analyzed by mean, standard deviation and t-test. The obtained results showed that there is no significant difference in the effect of mobile learning on the students' learning performance in context to their locale and type of school.

Keywords: *M-Learning, E-Learning, student performance.*

Introduction

The widespread use of technology, the constantly updated information, the need for people to access information everywhere and the individualization of the education have led the emergence of distance education, e-learning and mobile learning. Wireless communication technologies and mobile devices play an important role in the popularization of these concepts. In a world where there is a race against time, mobile technologies are not just a means of communication anymore, but they provide easy access to unlimited information at any time and place in the field of education with the applications developed. This helps students easily interact with information and enables the use of technology for educational purposes. As mobile technologies have become widespread, they have started to play an important role for teachers and learners with the advantages it offers in the field of education

Modern technology breakthroughs in education have resulted in advanced learning methodologies. Students born in this digital technology era, for example, are accustomed to having instantaneous and various sources of information, being able to multitask, and being socially connected to other students and their peers via mobile technology devices. The convergence of new mobile technology and the digitally enhanced social and cognitive skills of today's youth will necessitate new solutions in today's learning concepts. Mobile learning is the most likely option. According to vanikaloo and Permanand (2012), mobile learning is the use of ubiquitous handheld devices, as well as mobile phones and wireless networks, to accelerate, enhance, assist, and extend the reach of learning and teaching.

Furthermore, mobile learning has a lot of potential as a learning tool to be utilised in learning circumstances where students are geographically scattered, to facilitate collaborative learning, to engage students with appropriate information, and to be used as an alternative to computers or books. It can also be used as a substitute for attending university lectures. Furthermore, it can be utilised for just-in-time content delivery. Furthermore, we may use mobile technology to extract and push information and provide learning to any student or individual in any location at any time. As a result, m-learning simply provides a just-in-time or on-the-go type of learning.

Mobile learning is arguably less expensive than traditional learning. It is even less expensive than using personal PCs. Furthermore, because mobile devices are widely available and very inexpensive, they can be used by a large number of people. As a result, e-inclusion is becoming much more feasible through the usage of mobile phone devices for material downloads and even learning.

Mobile Learning

Over the last few decades, there has been a development in wireless and mobile technologies that has greatly fostered this new kind of learning: mobile learning. Various scholars have tried to have a universal definition of m-learning. However, there is no one fixed explanation of the term "m-learning,"

as it can be manipulated in different ways to fit the situation under which it is being used. There have been similar definitions of the term, with some saying that it is a form of e-learning through the use of mobile phones. Many scholars seem to agree with this definition. However, what comes out is that M-learning is an extension of e-learning. Furthermore, "e-learning" can be defined as any education that is rendered with the main or dominant technology of palmtop devices or handhelds.

M-Learning has been viewed from both the pedagogical and the technological perspectives. This is because there is a group of thought that defines M-Learning as any learning activity that goes on when the learner is not at some fixed position or learning activity that a student is subjected to while using mobile technology. M-Learning has also been defined as any process that gives the learner the opportunity to be more interactive when interacting with, applying, or creating information through some digital portable device that one has easy access to and carries in most of the places that he or she goes. From the explanations, it is clear that M-Learning is a new form of e-learning that is offered to students through the application of mobile technologies.

Through the mobile learning approach, students are motivated and can engage their attention while placing much precedence on solving problems, enhancing their reading, memory, and writing skills. Furthermore, another advantage over conventional classroom contexts is that the use of mobile technology in the assessment and learning process through mobile-learning tests enables the students to prioritize their time based on their needs by personalizing their experience. Moreover, m-learning seems favorable to students since it has the capability of accommodating a diverse range of sections and features that provide an interactive learning experience. It also offers a stress-free environment, which is enhanced by a uniquely designed, user-friendly interface. Similarly, the text layout and design layout can eliminate confusion and frustration and make the information a much easier source of learning.

Learning, besides providing the students with the requisite knowledge and skills, is also an essential tool that can be used by students to solve problems in their daily lives. They need to be able to implement the lessons learned in class and apply them in real-life situations. Learning is needed for a student to change a nonfigurative concept into a particular ideology and be able to understand while doing it. Technology comes in here in the sense that it helps the learners not only to concretize complex abstract concepts, but it also fosters the configuration in the learner's mind through recognisable multidimensional studies and theorem concepts. A lot of researchers have ascertained that mobile learning tools in teaching different concepts have fostered not only learning different subjects but also increasing student motivation and trust.

Benefits of m-learning to students

It is indeed inevitable that the application of mobile learning in school institutions has impacted the development of students' learning behaviors as well as their performances. This is because it plays a role in boosting the learners' numeracy and literacy skills as it incorporates both collaborative and independent learning experiences. In the modern generation, technology has been at the core of everything. It is, therefore, an achievement for the education centre if they have embraced M-Learning technology as one of the ways that they can enhance the learning activity at universities. The use of mobile technology in education leads to collaboration and the communication of practice. Some of the other benefits that can be derived from the use of M-learning are that it impacts the student's social interaction, communication, motivation, mobility, and collaboration.

A lot of studies have been conducted on the benefits that accrue to students using mobile technologies to carry their academic resources as opposed to carrying heavy books while going at the learning institution. Being that mobile phones are personal, they offer rich potential for both collaborative and personal learning. The use of mobile learning also plays the role of reducing the physical gap that exists between the learner and the teacher. The learner can feel free to ask the teacher any academics question even if the teacher is not physically present at the moment. This is one way in which mobile learning is impacting on the behavior of the student. Through consulting the teacher online, there is saving of time as the student does not waste time walking to the tutor. As a result of this, the performance of the student is bound to increase. Mobile is learning also enhances face-to-face learning in a formal learning set-up. Furthermore, they offer management applications to students to enable them to improve on how they are organized while they are learning. Both the teachers and the students that have the mobile technology are not limited to wire-based

communication while they are in the learning environment.

Objective of the study

- 1 To study on effect of mobile learning on the urban and rural students' learning performance.
- 2 To study on effect of mobile learning on the government and private school students' learning performance.

Hypothesis of the study

- 1 There is no significant difference in the effect of mobile learning on the urban and rural students' learning performance.
- 2 There is no significant difference in the effect of mobile learning on the government and private school students' learning performance.

Methodology

In the present study survey method has been used. A total of 600 students have been selected as a sample of the study. Self-developed questionnaires were prepared for the distribution. For the analysis of the study mean, SD and t-test has been used.

Results of the Study

Ho1 - There is no significant difference in the effect of mobile learning on the urban and rural students' learning performance.

Table : 1
Significant difference in the effect of mobile learning on the urban and rural students' learning performance

Group	N	Mean	SD	t-test	Result
Urban Student	300	181.76	13.30	0.42	Accepted
Rural Student	300	182.24	14.54		

Analysis:-

In the above table number 1, the effect of mobile learning on the urban and rural students' learning performance has been shown. The mean of urban students is 181.76 and standard deviation is 13.30 and the mean of rural students is 182.24 and standard deviation is 13.54. From these scores, the value of t-test was found to be 0.42, which is less than the value of 1.96 obtained for t-test at 0.05 level of degree of freedom. Hence null hypothesis is accepted.

Ho2 - There is no significant difference in the effect of mobile learning on the government and private school students' learning performance.

Table : 2
Significant difference in the effect of mobile learning on the government and private school students' learning performance

Group	N	Mean	SD	t-test	Result
Government Student	300	183.49	14.63	1.18	Accepted
Private Student	300	184.80	12.41		

Analysis:-

In the above table number 1, the effect of mobile learning on the government and private students' learning performance has been shown. The mean of government students is 183.49 and standard deviation is 14.63 and the mean of private students is 184.80 and standard deviation is 12.41. From these scores, the value of t-test was found to be 1.18, which is less than the value of 1.96 obtained for t-test at 0.05 level of degree of freedom. Hence null hypothesis is accepted.

Conclusions

It is a fact that we have stepped into the digital era where we can learn from anywhere in the world at any given time. As at now, the utmost necessity is to have the capability and the know-how of how to embrace and utilize these ubiquitous technology devices in our learning environments to the gain of our advantage, specifically to foster our learning behavior as well as our learning performances. It is undeniable that there are a variety of devices that are embraced and mobile learning with its abilities is

to provide solutions to learning problems. This paper has examined the effect of Mobile learning on the development of the Students' learning behaviors and performance at Jordanian University.

The findings from this research study also indicated that there is found no significant difference in the effect of mobile learning on the urban and rural students' learning performance and there is found no significant difference in the effect of mobile learning on the government and private school students' learning performance. In conclusion, it has been ascertained that mobile technology plays an integral role in enhancing student learning. It specifically helps in positively enhancing student learning behaviors and student performance.

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