

**The Benefits and Disadvantages of Mobile learning
in Education**

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مزايا وعيوب التعليم المتنقل في التعلم

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في الوقت الحاضر، يحتاج التعليم الى نماذج تعلم فعالة تجعل الطلاب أكثر نشاطا. تلعب التكنولوجيا دورا مهما في كيفية العثور على المعلومات وتقديمها. يتم الحصول على المعلومات عبر الأنترنت، وهي متاحة ببساطة، وغالبا ما تكون مجانية. لذلك، نال استخدام تكنولوجيا الهاتف المحمول في التعليم أهتماما كبيرا. تعد ملكية الأجهزة المحمولة عالية جدا وتستمر في الزيادة بين الطلاب. يكتسب التعليم المتنقل أهمية كبيرة بين الجيل الجديد. حيث يعمل على تحسين تفكير الطلاب ويحفزهم على التعلم العميق. التعلم المتنقل هو مصدر إضافي للتعلم، موجود في أي وقت وأي مكان وأي شبكة. ستقدم هذه الورقة لمحة عامة عن استخدام تكنولوجيا الهاتف المحمول والتعلم المتنقل بين الطلاب.

Abstract:

Nowadays, education needs effective learning models which make the pupils more active. Technology is playing an important role on how information is found and delivered. Information is obtainable on line, simply available, and mostly free. Therefore, the use of mobile technology in education has been significant interest. The ownership of the mobile devices is very high and it continues to increase among pupils. Mobile learning is gaining much importance among the new generation, it improves pupils thinking and stimulates them for deep learning. Mobile learning is an additional source of learning that are existing anytime, anyplace, any network. This paper will provide overview of the use of mobile technology and mobile learning among pupils.

Introduction:

Education is the procedure by which the skills, wisdom, and knowledge of one generation are passed to the next, and it is the essential process in the preservation and development of human culture (1). Traditional learning (T-learning) is mentioned as face to face learning in the schoolroom. All the pupils must be existing there in person to get the necessary information and the teacher is accountable for transporting the information to the pupils and supplying them the schoolbooks or lecture records (2). There are several limitation of this form of learning like absence flexibility as the learning is completed in a specific place and particular time. Therefore, the distance learning (DL) platforms is a typical to persons who can't existing physically in the schoolroom. Researchers bring out a new type of learning called electronic learning (3).

Technology is playing a significant role in our lives and assistance pupil and teachers to get more benefit from it (4). Individuals who are living in this information age which needs them to become knowledge staffs, but the need for physical staffs gradually reducing, and in this current society the lifelong learning is vital in the emphasis of continued success (5). In this considered, electronic learning (e-learning) is the only answer to the subjects relating to the distribution of resources for lifelong learning assistance. E-learning includes learning through the usage of Information and Communication Technology (ICT) organizations (6).

The internet was used in the educational establishments for communication object in the 70s, then its great view as a learning tool was already recognized among. Additionally, the recent years have saw the increasing interest of governments of diverse nations to the probability of online learning in the providing of education that is up-to-date, simply accessible, as well as cost effective, for the people from all works of life and location, at any time (7).

Mobile learning is a natural extension of e-learning and therefor part of distance learning (5), mobile learning can be used in deferent ways, live talks and lectures can be aired to pupils. While the teacher is presenting a conversation, pupil can watch this on their phones. Pupils can display their work online for admission by others, records of lectures, and presentations can be made for pupils to later watch at their own time either online or via their moveable devices (8).

This paper presents the discussion of both benefits and dis advantages of mobile learning

Electronic learning (E-learning)

The concept of e-learning was complicated in the applications, learning methods, and processes. Also it was mentioned to the use of variety types of information and communication technology, and electronic strategies (9).

Advantages of E-learning

Presenting e-learning into the schools and colleges offers numerous benefits due to many details:

1- It was estimated as flexible learning because each pupil can select the location or time to education.

2- Pupil can obtain the main amount of information in a short time.

3- Cost effective for the pupil and academic establishments.

4- Each pupil pursues different information based on their skills.

5- Bridge the deficiency of academic and technicians (10) (11).

Disadvantage of E-learning

There are some disadvantage found in the many studies (12) (13).

1- Aloofness and absence of interaction

2- Little level of learning effectiveness

3- Little level of pupil's communication skills.

4- Problematic to regulator the cheating during the valuation.

5- Not appropriate method to all academic fields.

Mobile learning

Mobile learning is the ability to reach or offer educational content on individual pocket devices such as PDAs, smartphones and mobile phones (14). M-learning let the communication between the pupil and teacher anywhere and anytime (15). M-learning has numerous features over E-learning. It licenses the pupil movement from a context to another, and simplifies accessing to the course materials and activities. So it improves the operator with personalized learning environment (2). On the other hand, there are some obliges facing the use of mobile technology such as low resolve, small screen size, limited battery, low memory capacity, and availability of wireless network (16). Mobile applications are an effortlessly available tool that has the possible to donate to education (17).

The linking of the mobile devices in the mobile learning system should have a reactive facility or online program interface where both teachers and pupil can record on contribute in the mobile learning process (18). Mobile devices, obviously, are rising faster than the world's people. Cisco, in its Annual Internet Report (2018-2023) available in March 2020, predictions that smartphones will have the second-fastest growth by the end of 2023 (19). Education is there to ensure all pupil can advantage from a learning skill. To do so, when seeing our ever-changing world, teachers and educational institutions should hold technology as an advanced a new methodology, to allow their pupil to attain their goals (20).

Most developing nations need to tool mobile learning due to the quite a number of details, some of which are recorded below (21):

1- Difference between present academic facilities and physical infrastructure against the cumulative number of pupils admitted into educational institutions.

2- Limited time and place chances for workers. Some type of education need pupils to be in the classroom or on place, which is most of the time problematic for workers as a result of their working schedules.

3- Some public institutions in developing countries are being originally developed as places for both study residence because of their national character and model adopted.

Benefits of Mobile Learning

Some advantages and benefits of mobile learning include:

1- Mobile learning can happen at anyplace and anytime, and learning content can be read anywhere.

2- Mobile learning improves contact between teachers and pupils.

3- Mobile learning is a great chance for pupils and teachers to continue to study while on the move.

4- A mobile learning process is not imperfect to one specific place.

5- Mobile learning services teamwork among pupils and teachers through both asynchronous and synchronous communication techniques (22).

Dis advantages of mobile learning

There are some notable disadvantages of mobile learning include:

1- Mobile learning may give chances for students to cheat if there is no checking system in place to check cheating.

2- Mobile learning can make an isolation or a feeling of being out of the loop for both teachers and pupils who may not always have mobile connectivity.

3- Dependent on the network resources and platform, some contents in mobile learning may be reduced outdated because of fast upgrades from one session to the next.

4- Mobile learning also need an extra learning curve for non- technical teacher and pupils.

5- Mobile learning cannot supplement applied hands-on lessons, such as laboratory experiments for chemistry students.

6- Small mobile screens limit the amount and type of information that can be showed. In addition to the limited storage capacities and short battery life (22)

Challenges for mobile learning in education

There are some challenges also for mobile learning today (23):

- 1- Bad implications: some mobile device may contribute to immoral behavior by pupils or disruption in the classroom.
- 2- Cultural standards: most teachers and parents currently consider cell phones to be a disruption in school.
- 3- Theory of learning: at the time of application, there is no established theory of learning for mobile technologies.
- 4- Differentiation: mobile technologies are varied, which presents a significant challenge for teachers.
- 5- Limitations: some mobile technologies feature poor designs with usage limitation that may adversely affect learning.
- 6- Size the messages or email: many devices support limited number of characters in message or email.
- 7- Speed: the speed of processing and connectivity of mobiles is low.
- 8- Cost: the cost of cellphones, mobile applications and the internet bandwidth is high.

The avail of mobile devices, requests new educations, academic methods and style to deliver and simplify education, If mobile learning is correctly simplified, pupils should be delivered with interaction activities and promising education materials anywhere and every time they need it. To save up with this altering occurrence and to efficiently simplify mobile education, it is vital that teachers learn and acclimate to the altering environments when and where suitable.

Conclusion

Technology is altering every day and new devices are being developed at a faster rate. Even this is true in the case of mobile phones. The usage of mobile learning technology is the most significant essential technologies to offer a chief goals in education. It proposal learning and data accession chances to pupil irrespective time and place. The fact that mobile technologies development and it meets people's need faster, has increased the benefits in mobile technologies and their usage. There are many advantages and disadvantages in this system, most of the technical limitations are fixed by the growth in the technology. Despite the problems that exist in mobile technology, creativities to make m-learning part of the instructive model are cumulative day by day.

References

- 1- Alonso, D., & Norman, K. (1996). Forms of control and interaction of lecture effectiveness in the electronic classroom. *Computers & Education*, 27 (3-4), (205-214).
- 2- Sarrab, M. (2015). M-learning in education: Omani undergraduate student's perspective. *Procedia-Social and Behavioral Sciences*, 176 (834-839).
- 3- Girginer, N. (2001). Pure Distance Education Restructuring for Pass (online) <http://aof20.anadolu.eedu.tr/bildiriler/Nuray-Girginer.doc>. Accessed: Nov.25, 2006.
- 4- Clark, J. D. (2007). Learning and Teaching in the Mobile Learning Environment of the Twenty-First Century. Austin, Texas: Austin Community College.
- 5- Baker El-Ebiary, Y. A., Al-Sammarraie, N. A., Shukur, B. S., Almandeel, S., Al-Shamasi, A. (2018). Mobile Learning as a New E-Learning Strategy. *International Journal of Engineering & Technology*, 7(4.38): 876-879.
- 6- Rosenberg, M. (2001). E-learning: Strategies for delivering knowledge in the digital age. New York, NY: McGraw-Hill.
- 7- Hildebrand, A., Schmidt, C., & Engelhardt, M. (2007). Mobile learning content on demand. *Hochschulrechenzentrum (Berlin, Germany)*. Treskoyal-lee, 8 (10318).
- 8- Georgieva, T., Georgieva, E., & Smrikarov, A. (2004). M-learning: A new stage of e-learning. In *Proceeding of the International conference on Computer System and Technology (CompSysTech 2004)* (pp.1-5). Rouse, Bulgaria: CompSysTech.
- 9- Zeitoun, H. (2008). E-learning: Concept, Issues, Application, Evaluation. Riyadh: Dar Alsolateah Publication.
- 10- Smedley, J. (2010). Modelling the impact of knowledge management using technology, *OR Insight*, 23(4): 233-250.
- 11- Codone, S. (2001). An E-learning Primer, Raytheon Interactive, Pensacola, Florida. (Online) <http://faculty.mercer.edu/>. Accessed: Mar. 1, 2016.

- 12- Korucu, A. T., Alkan, A. (2011). Differences between m-learning (mobile learning) and e-learning, basic terminology and usage of m-learning in education, *Procedia-Social and Behavioral Sciences*, 15:1925-1930.
- 13- Klein, D., & Ware, M. (2003). E-learning: New opportunities in continuing professional development. *Learned Publishing*, 16(1):34-46.
- 14- Keegan, D. (2002). The future of learning: ZIFF papiere 119: From e-Learning to m-Learning, <http://www.fernuni-hagen.de/ZIFFZP-119.pdf>, 19.08.2010.
- 15- Udanor, C. N., & Nwodoh, T. A. (2010). A review of m-learning models. *Indian Journal of Computer Science and Engineering*, 1(4):426-435.
- 16- Najima, D., & Rachida, A. (2008). An adaptation of E-learning Standard to M-learning. *International Journal of Interactive Mobile Technologies (IJTM)*, 2(11).
- 17- Traxler, I. (2016). Inclusion in an age of mobility. *Res. Learn. Technol*, 24.
- 18- Frohberg, D., Goth, C & Schwabe, G. (2009). Mobile Learning Projects- A Critical Analysis of the State of the Art. *Journal of Computer Assisted Learning*, 25(4):307-331.
- 19- Cisco. (2020). Annual Internet Report (2018-2023). Available online: <https://www.cisco.com/c/en/us/solutions/collateral/executive-perspectives/annual-internet-report/white-paper-c11-741490.html> (accessed on 19 April 2021).
- 20- Sorbal, S. R. (2020). Mobile Learning in Higher Education: A Bibliometric Review. *Int. J. Interact. Mob. Technol*, 14:153-170.
- 21- Asabere, N. Y. (2013). Benefits and Challenges of Mobile Learning Implementation: Story of Development Nations. *International Journal of Computer Applications*, 73(1):2327.
- 22- Corbeil, J. R., & Valdes-Corbeil, M. E. (2007). Are You Ready for Mobile Learning. *Educause Quarterly*, 2:51-58.
- 23- Praveen Kumar, G., & Vasimalairaja, M. (2019). Mpbile Learning. <https://www.researchgate.net/publication/332269385>.