

Using Mobile and Its Teaching Learning Dimension: From Pedagogical Point of View

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Abstract

Using and applying educational technology, the modern teaching and learning system has revolutionarily changed? It makes the learning process easier. Teachers may apply techniques, approaches and methods from a pedagogical point of view using mobile technology. Nowadays there are new forms of education: besides formal education, classical methods, and techniques of the teaching-learning process; there is innovation and improvement in this field. Mobile learning, or "M-Learning", is one of the modern ways to support the learning process through mobile devices, such as handheld and tablet computers, MP3 players, smartphones and mobile phones. In this paper, we have tried to introduce the subject of mobile learning for educational purposes. It talks about mobile phones in teaching and learning practices and goes on to look at the opportunities presented by the use of digital media on mobile devices. The main purpose of this paper is to describe the current state of mobile learning, its advantages, and limitations, in

supporting teaching and learning. Five key areas will be addressed in this paper which is mostly focused as the mobile learning dimension:

1. Different dimensions of m-learning
2. Objectives of m-learning
3. Differentiating E-Learning from Mobile Learning
4. Advantages of Mobile Learning
5. Limitations of Mobile Learning.

Keywords: Education, Learning, M-Learning, Pedagogy, Teaching,

Introduction

A few years ago, the world was confronting two aspects of problems which were not only affecting human life but also inflicting their full impact on education. Population explosion and information explosion are two problems of the modern world. Stakeholders in this field saw that there were many people teaching and that many plan to teach. A new subject saw the light; that branch of study is educational technology.

The educational stakeholders talked about the population explosion which was immensely affecting traditional patterns of education. Due to increase in population in different countries, there was increase in knowledge. All educationists, teachers, educational philosophers sat and developed new and many techniques and methods of teaching and learning such as distance learning, individualized learning, computer-based learning, e-learning, mobile learning, etc. This paper focuses on using Mobile and its different dimensions in learning and teaching from a pedagogical point of view.

Meaning of Mobile Learning

Mobile learning is the ability to obtain or provide educational content on personal pocket devices such as PDAs, smart phones and mobile phones. Educational content refers to digital learning assets which includes any form of content or media made available on a personal device.

According to Pink Wart, et al. (2003) mobile learning is defined as learning that uses mobile devices and wireless transmission. Quinn (2000) defined it as simply learning that takes place with the help of mobile devices, or the intersection of mobile computing (the application of small, portable, and wireless computing and communication devices). In this digital world updated mobile apps make the teaching and learning process easier (Change et.at2010, Terrell 2011).

After reading different definitions of different authors and researchers we should say that mobile devices as a pervasive medium that may assist us in combining work, study and leisure time in meaningful ways.

Different Mobile Teaching-Learning Dimensions

1. TUTOR TO LEARNER

TUTOR	—————	LEARNER
Teaching-learning discussion online of one tutor to one learner.		

2. LEARNER TO LEARNER

LEARNER	—————	LEARNER
Teaching-learning discussion online of one tutor to one learner.		

3. TUTOR TO MANY LEARNERS

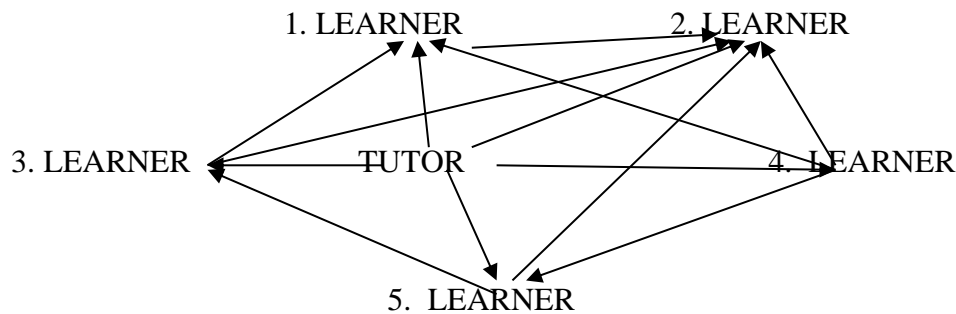
TUTOR	LEARNER	This is a loudspeaker mobile in one centre or classroom wherein there is more than one learner.
	LEARNER	
	LEARNER	
	LEARNER	
	LEARNER	

4. TUTOR TO MANY CENTERS AND MANY LEARNERS ON SAME TIME

TUTOR	LEARNER	This is a loudspeaker mobile in one centre or classroom wherein there is more than one learner.
One tutor may teach and manage	LEARNER	
	LEARNER	

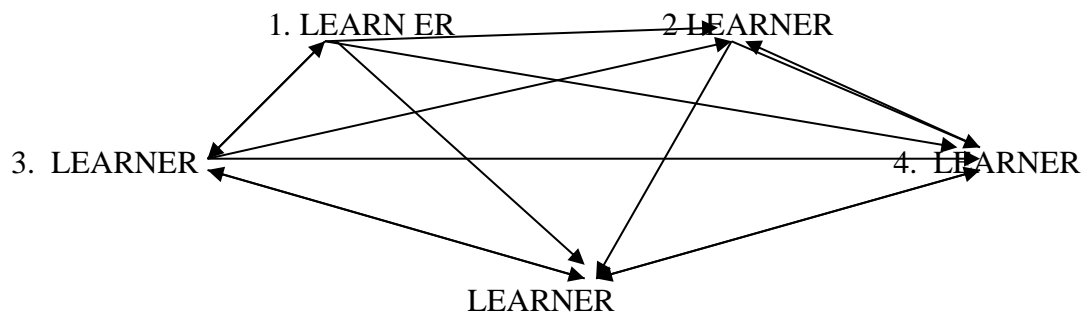
different classrooms in the same time by using mobile teaching-learning system	LEARNER	This is a loudspeaker mobile in one canter or classroom wherein there is more than one learner.
	LEARNER	
	LEARNER	
	LEARNER	This is a loudspeaker mobile in one centre or classroom wherein there is more than one learner.
	LEARNER	
	LEARNER	
	LEARNER	This is a loudspeaker mobile in one centre or classroom wherein there is more than one learner.
	LEARNER	
	LEARNER	

5. TUTOR TO MANY LEARNERS SEPARATELY



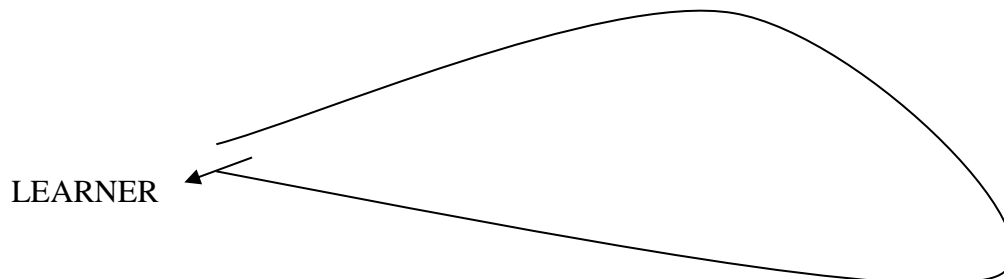
This above diagram shows a home or centre conference teaching-learning call.

6. LEARNERS GROUP DISCUSSION SEPARATELY



This above diagram shows a home or centre conference teaching-learning call among learner alone separately

7. SINGLE SELF-LEARNING



Here, the learner uses mobile connection, records, appropriate learning apps.

A list of (Mobile) Android, IOS and Apple, Phonetics (IPA) apps

Phonetics apps	Phonetics apps
1. Phonemic chart	11. English Phonetics IPA
2. Learn English Sounds Right	12. Phonetic transcription
3. Sounds: Pronunciation App Free	13. English grammar & phonetics
4. Phonemes: IPA Chart, transcription	14. International Phonetic Alphabet
5. Phonetics Chart: English Language Club	15. English Phonetics, text to practice
6. Pronuroid –IPA Pronunciation	16. Speak English pronunciation
7. Full Phonetics Symbols English	17. toPhonetics Free
8. English Pronunciation IPA-44 phone	18. IPA Keyboard
9. Phonical –Phonics Learning made Easy	19. Phonics –Sounds to words for beginners
10. Phonetics Keyboard English BETA	20. Letter sounds A to Z.

Objectives of M-Learning

Encourage ‘anywhere, anytime’ learning

Mobile devices allow students to gather, access, and process information outside the classroom. They can encourage learning in a real-world context, and help bridge school, after school, and home environments.

Reach underserved children

Because of their relatively low cost and accessibility in low-income communities, handheld devices can help advance digital equity, reaching and inspiring populations ‘at the edges’ – children from economically disadvantaged communities and those from developing countries.

Improve twenty-first century social interactions

Mobile technologies have the power to promote and foster collaboration and communication, which are deemed essential for twenty-first century success.

Fit with learning environments

Mobile devices can help overcome many of the challenges associated with larger technologies, as they fit more naturally within various learning environments.

Enable a personalized learning experience

Not all children are alike; instruction should be adaptable to individual and diverse learners. There are significant opportunities for genuinely supporting differentiated, autonomous, and individualized learning through mobile devices.

Difference Between Mobile Learning and E-Learning

According to Yousef Mehdipour (2013), E-learning has come to define any dissemination of educational knowledge over the Internet. This makes e-learning a subset of technology-based training. It also incorporates a number of learning activities conducted on the Internet, of which mobile learning is one part. Mobile Learning simply is the natural evolution of E-Learning, which completes a missing component such as the wireless feature, or as a new stage of distance and E-Learning (e.g., Georgiev, et al. 2004). M-Learning is often described as occupying a sub-space within the E-Learning space, which is in turn a sub-part of digital learning.

E-LEARNING	M-LEARNING
lecture in classroom or internet	learning anywhere, anytime
labs e-mail-to-e-mail	instantaneous messaging
private location	no geographic boundaries
travel time to reach to internet site	no travel time with wireless internet

Importance of Mobile Learning

In life we bring innovation and new styles of living because of their role in improving people's life style and evolution. The m-learning should improve the teaching-learning techniques, it involves learner-centred method. Here below we have brought out the significance of mobile learning.

Yousef Mehdipour (2013): Tutors who have used M-Learning programs and techniques have made the following value statements in favor of M-Learning.

It is important to bring new technology into the classroom. Devices used are more lightweight than books and PCs. Mobile learning can be used to diversify the types of learning activities students take part in (or a blended learning approach). Mobile learning supports the learning process rather than being integral to it. Mobile learning can be a useful add-on tool for students with special needs.

Advantages of M-Learning

Hamideh Zerehkafi and Yousef Mehdipour (2013): Relatively inexpensive opportunities, as the cost of mobile devices are significantly less than PCs and laptops. Multimedia content delivery and creation options. Continuous and situated learning support. Decrease in training costs. Potentially a more rewarding learning experience. Improving levels of literacy, numeracy and participation in education amongst young adults. Using the communication features of a mobile phone as part of a larger learning activity, e.g.: sending media or texts into a central portfolio, or exporting audio files from a learning platform to your phone.

Limitations of M-Learning

From the new techniques in education some limitations have been found out.

Technical challenges for M-Learning include connectivity, capacity of battery and its life expectancy. Screen size and key size (Maniar and et. al. 2008). Meetings require bandwidth for nonstop/fast streaming. The number of file/asset formats supported by a specific device is another requirement. Content security or copyright issues from authoring groups, multiple

standards, multiple screen sizes, multiple operating systems, etc. are other issues. Reworking existing E-Learning materials for mobile platforms and limited memory are often highlighted (Hamideh Zerehkafi and Yousef Mehdipour (2013).

Conclusion

This paper has discussed and demonstrated the key role and contribution of mobile learning in the recent world. It has been explained as a new technique of learning which helps the world to reach education for all, It also explained the m-teaching learning dimensions, advantages, importance, and limitations of m-learning.

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References

Beetham, H., & Sharpe, R. (Eds.), *Rethinking Pedagogy for a Digital Age*:

Chang, K. E., Lan, Y. J., Chang, C. M., & Sung, Y. T. (2010). Mobile-device-supported strategy for Chinese reading comprehension. *Innovations in Education and Teaching International*, 47, 69–84.

Chinnery, G. M. (2006). Emerging technologies going to the mall: Mobile assisted language learning. *Language Learning & Technology*, 10, 9–16. Retrieved from <http://llt.msu.edu> Designing and Delivering E-Learning. London: Routledge.

Dalton, C. and Seidlhofer, B. 1994. Pronunciation. Oxford: Oxford University Press.

Dalton, D.F.1987. Some techniques for Teaching Pronunciation. The internet TESL Journal III,1.

Kukulska-Hulme, A. (2009). Will mobile learning change language learning? *ReCALL*, 21 (2),157-165.

Kukulsak-Hulme, A., & Shield, A. (2008). An overview of mobile assisted language learning: Can mobile devices support collaborative practice in speaking and listening? *ReCALL*, 20(3), 271-289.

Kukulska-Hulme, A., & Traxler, J. (2007). Designing for Mobile and Wireless learning.

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Maniar and et.al. 2008). "The effect of mobile phone screen size on video-based learning". Journal of Software 3 (4): 51–61. <http://Mobl21.com> : consulted on 19/04/2015.

Yousef Mehdipour. 2013. Mobile Learning for Education: Benefits and Challenges, [IOSR Journal of Research & Method in Education \(IOSRJRME\)](#) 1(6):65-71

Yousef Mehdipour And Hamideh Zerehkafi. 2013. Mobile Learning for Education: Benefits and Challenges International J. of Multidispl. Research & Advcs. in Engg. (IJMRAE), ISSN 0975-7074, Vol. 5, No. III (July 2013), pp. 173-189.

Morley, Joan. (ed.). 1987. Current Perspectives on Pronunciation: Practices Anchored in Theory. Alexandria, VA: TESOL.

Pinkwart, et al. 2003. The Incorporation of Mobile Learning into Mainstream Education and Training. Proceedings of mLearn2003- 4th World Conference on mLearning, Cape Town, South Africa, 25-28 October 2003. <http://www.mlearn.org.za/CD/papers/keegan1.pdf>

Quinn 2000. "Universal Instructional Design Principles for Mobile Learning". International Review of Research in Open and Distance Learning 12 (2): 143–156.

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