The Future Of Mobile Learning And Its Implications On Education

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Abstract: -

Mobile learning is based on using mobile devices that makes the learning opportunities more flexible with higher amount of mobility it simply means that learning could be possible at any time and any place. This paper tries to analyze the importance of mobile learning for education purposes it describes the present state of mobile learning its advantages, challenges and the barriers related to teaching and learning this research also tries to find out the impact of mobile device practices used for teaching and learning. This study defines the present and the future of mobile learning. As per surveythere is very little research done on this topic, this was the main intention to carry out this study. Data for this paper were collected through bibliographic and internet.

Key Words: -**Mobile learning, Mobile Phone,Mobile devices,On-line learning**

Introduction:-

Mobile learning is defined as any type of learning were mobile devices are used for teaching and learning purpose and through which flexible learning opportunities are madeavailable,it also creates higher mobility i.e. it can be carried out at any time and any place. Mobile learning has become affordable and easy source of learning and it could be accessed to any mobile devices in everyday learning. In recent years there has been a fast technological advances and this has resulted in the revival of personal computers (PC) in smartphone and tablets forms.

 Mobile Learning has different meanings for different communities, it also refer to a subset of E-Learning, educational technology and distance education, that focuses on learning across contexts and learning with mobile devices. Mobile learning has many different definitions and is known by many different names, like M-Learning, U-Learning, personalized learning, learning whilemobile, ubiquitous learning, anytime and anywhere learning, and handheld learning. One definition of mobile learning is, "any sort of learning

that happens when the learner is not at a fixed, predetermined location, or learning that happens when the learner takes advantage of the learning opportunities offered by mobile technologies", In other words, with the use of mobile devices, learners can learn anywhere and at any time. Mobile learning is considered to be the ability to use mobile devices to support teaching and learning.

The following are the main features of Mobile Learning.
- It can be done anywhere and anytime.
- It has brought a Pedagogical Change in the system of education.
- It is based on more text and instructions based on graphics.
- Lot of graphics, voice, and animation are inculcated in Mobile.
- Flexible method of learning where lecture can be conducted in classroom or in internet labs or wherever you are present.

Mobile learning can take place anywhere be it in classroom, dining area table in the bus,metros or anywhere. Here the portability is not so important but ability of the learner to connect, communicate, collaborate, and create using tools that is present in the handsthis new technology based learning is re-inspire the young learners who dropped learning due to are traditional way of learning. Research and development has been in growth due to mobile learning. Tutors who have used M-Learning programs and techniques have made the following value statements in favor of M-Learning. This type of learning helps to bring new technology into the classroom. The devices that are used are lightweight than booksLaptops and PCs, 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.

Challenges of M-Learning:

Technical challenges for M-Learning include:
- Issues related to Connectivity and battery life
- Screen size and key size is small as compared to other devices
- Requirement of bandwidth is order to get nonstop and fast streaming
- Supported of specific device, and file formats
- Security and copyright issue related to the content
- Issue of multiple screen sizes, standards and operating systems
- Reworking of existing E-Learning materials for mobile platforms
- With mobile there is a risk of sudden obsolescence and limited memory

Social and educational challenges for M-Learning include:

- Challenges of assessinglearning outside classroom
- Accessibility and cost barriers for end users Digital divide.
- How to support learning across many contexts
- Security issues related to the content's or piracy
- Frequent updation in technology and device models
- Development of appropriate theory and methodsof learning related to the Mobile age
- Differences related to E-Learning and M-Learning
- Designing of technology for the support for lifetime learning
- Tracking of results and proper use of this information
- Learning timetable has very limited restriction
- Issues related to Personal and private information and its content
- There is no demographic boundary in M-Learning
- M-Learning
- May lead to Disruption and distraction ofthe students' in their personal as well as academic lives
- Technology issues in underdeveloped and developing countries

Some other barriers of mobile learning is high costs associated related to the devices, connectivity issues, requirement of technical support, maintenance, and trainingrequired forteachers.General feeling of people about mobile phones is that they look at mobile phones as device which is disruptive in natureand the students use it primarily for gaming, and getting engaged in inappropriate behaviors which could lead to online cheating and cyber malpractices.

 Currently, mobile technology has become a very important element of our modern lifeand so we enjoy a highly mobile environment. One of the important reasons of the growth of Mobile learning is that today lot of devices including smart phones having variety features and functionalities with convergence of technologies available has created an opportunity for teaching and learning .These devices which are available today are capable of offering rich and interactive multimedia learning materials for educational purposes, A key step to this end is the access to resources and this access is efficiently and easily provided. Because of the mobile technology personalized learning opportunities are created and a wide range of joint functions such as messaging instantly and logs provided by social networks can be utilized effectively.

The recent years have been featured the expansion of mobile technology in the field of education which is accepted by the students community today, almost all the students carry a mobile phone with them which has the capability to search for information . Mobile

technologies that are available today either as handheld or wearable form are featured to improve learning.Today's generation of studentsfor the purpose of for academics and deep learning have already shifted to mobile technologies which includes mobile phones, tablets mini laptops in a very speedy way . Today we cannot imagine our life without a smartphone because it has become an integral part of social life, and it is also widely accepted in most of the professions, education being one of them. Mobile phones are also used as source ofinformation and for the references; it is also used for improving access to find out the information, enhancement of learning in the field of academics, and enhancing problem-based learning.

With the development in the field of digital technology Mobile phones havebeen accepted as a reliable tool in the field of education, today many academic and value-added coursesare available on our smart phones which helps in facilitating a self-directed learning environment which gives the mobile users the opportunity to access the information and exercisewhich is beyond the limitation of physical and time.

There are many experimental studies which has shown positive effects of mobile learning inthe field of education. The finding indicated that mobile applications can be used as an educational tool with equal effectiveness just-in-time mobile learning videos. indicated that the participants who watched the video scored better in the skills case presentation performance and perception after watching short, just-in-time mobile learning videos using the iPod touch before dealing with exams. The result confirmed a statistically significant improvement in presentation after watching the video for the first time. Moreover, a reliable survey showed that the videos were useful teaching tools with which the subjects felt more confident in presentations.

Still, there is a need of a systematic evaluation of the outcome of mobile learning interventions for education. The present review study focuses on the educational effects of mobile learning on the students. The necessity of this work lies in the fact that, comparing with other electronic learning methods, mobile learning is a relatively untapped field of development and a deep and systematic examination of the results of mobile learning in the field of education can improve our insights into the subject under consideration. There are several studies on the effects of employing mobile learning in different countries and different levels of undergraduate and post-graduate programs. However, there is no review study for a systematic evaluation of the results of employing mobile learning intervention for the students. So the present study was carried out to synthesize the findings based on the and offers a deeper insight into the outcome of mobile learning in education.

Conceptual Framework:-

Mobile learning, also known as M-learning, is a new way to access learning content using mobile devices. It's possible to learn whenever and wherever you want, as long as you have a modern mobile device connected to the Internet. Mobile learning, also called M-learning or M-Learning, is any type of content that is developed or consumed on mobile devices, such as smartphones and tablets, and including anything from podcasts to full eLearning.

Mobile learning offers ultimate accessibility and flexibility to learners. Learners can access M-Learning courses anytime, anywhere via their mobile devices, meaning that they don't have to necessarily take the courses during office hours. 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. Mobile learning can be used as a 'hook' to re-engage disaffected youth. M-Learning can be designed to combine decision making in complex learning scenarios with formative scoring and assessment. Mobile Learning courses can be accessed either online or offline.

Growth of Mobile Learning

Mobile learning is widely used in schools, workplaces, museums, cities and rural areas around the world in comparison to traditional classroom pedagogical approaches, mobile learning allows widened opportunities for timing, location, accessibility and context of learning

Mobile Learning in Education makes learning fun

Nobody likes to feel as if they are being tested or forced to learn something. So make learning fun! By incorporating elements of gamification into your mobile learning platform, you'll engage your audience through play and increase the likelihood of them continuing to participate, while also encouraging engagement and positive feelings towards the platform and the experience. Ultimately, this will result in higher completion rates and much more satisfied participants.

Mobile Learning in Education is more engaging

People are more likely to retain information that they learned if they are engaged with the content. Reading a wall of text is long and isn't an effective means of retaining information. According to the Social Science Research Network, over 65 per cent of people are visual learners. Mobile learning allows you to incorporate video, have a responsive design and include a whole array of other visual elements. By incorporating stats, graphs and other visually appealing designs, not only are you more likely to grab

and keep your participant's attention, but they are also more likely to remember the information.

Mobile Learning is the preferred method for users

In-person training sessions are often seen as long, tedious and unproductive. Mobile learning allows users to take the training they want when they want it. Instead of having to plan their day around it, they can instead incorporate it into their routine seamlessly. Mobile learning is learning across multiple contexts, through social and content interactions, using personal electronic devicesA form of distance education, m-learners use mobile device educational technology at their convenient time M-learning technologies include handheld computers, MP3 players, notebooks, mobile phones and tablets. M-learning focuses on the mobility of the learner, interacting with portable technologies. Using mobile tools for creating learning aids and materials becomes an important part of informal learning.

Social Impact of M-Learning

A survey conducted in the US the following was the findings.

Around 87.9% people visited websites were social network websites through Mobile phones.

Using mobiles for studying and surfing through social networking websites over academic-oriented searches is worthy of attention because it was found that students spent around 10 hours chatting with a male friend, almost non-stop. The outcome was that the student could not complete her assignment nor engage in concerted study this was the effect of M-Learning

Also apart from chatting, many of the students were spending hours for downloading and watching videos, most of which were counterproductive to academic development.

This is the bad effect of M-Learning which could be an addiction, the addiction of constantly checking Facebook, Twitter, LinkedIn and other social media updates while M-Learning. According to them, this addiction could negatively affect other valued activities like concentrating on studies.

81.4% of the students using the mobile learning tablets were apparently a distraction to serious academic work. 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.

Social and educational challenges for M-Learning:-

- Accessibility and cost barriers for end users digital divide.
- How to assess learning outside the classroom
- How to support learning across many contexts
- Content's security or pirating issues
- Frequent changes in device models/technologies functionality etc.
- Developing an appropriate theory of learning for the mobile age
- Conceptual differences between E-Learning and M-Learning
- Design of technology to support a lifetime of learning
- Tracking of results and proper use of this information
- No restriction on learning timetable
- Personal and private information and content
- No demographic boundary
- Disruption of students' personal and academic lives
- Access to and use of the technology in developing countries
- Distraction is a very important feature asMobile Learning leads to distraction

In order to meet their own educational goals,mobile phones are developed to be more learner centric this helps the students customizing and transferring the information to build theskills as well as the knowledge.

Advantages of Mobile Learning

- Mobile Learningimproves the level of literacy among the younger generation and the adults.
- With the growth in technology Multimedia content delivery can be done efficiently
- Continuous learning support
- Training costs decreases due to Mobile Learning
- Mobile Learning creates a kind of more rewarding learning experience
- Through M-learning technology one can learn and study anytime and anywhere,
- This is comparatively less expensive mode of learning as PCs and laptops are more costlier than themobile devices

- Advantage of mobile learning is to use the features of a mobile phone as part learning activity tosend media or texts into a central portfolio, and to export the audio files from a learning platform to your phone.

Disadvantages of Mobile Learning

- Issues related to the software and Hardwareapplication
- Issues related distraction withMobile Learning
- Issues relate to misuse of mobile during the process of Mobile Learning
- Issues related to internet connectivity or electricity.

Mobile learning courses at times can drain the batteries of your phone pretty quickly and could struggle in some areas because of the poor connectivity, which could lead to disturbance in learning which could create a lack of standardization, also technical issues related to the Device compatibility can also arise because of lack of standardization in smart-phones.

Objectives:-
1) To study and understand the importance of mobile learning and its impact on education
2) To understand the advantages and disadvantages of mobile education

Methodology:-
This study is based on secondary data which was collected through books, Research Articles, Thesis and Websites

Future of Mobile Learning:-
Last decade has witnessed an exponential growth of smartphones and hand held devices users and so our dependency on technology has also increased, a recent research survey proved that around 65 per cent of all digital media is viewed on smartphones, today an average person spends about three hours on their smartphone every day,it is for almost 2,600 times that the screens are touched and glanced roughly 221 times.This denotes that mobile learning has found a niche market in the mobile world,it is projected that the global mobile learning market will hit over US 78.5 billion by 2025.
Today with the pandemic situation the nature of education, in academic institutions rely heavily on online learning platforms to educate and train students.
According to the research, developed nationshave already startedusing some form of eLearning platform.

Managerial Implication:-
This Research Article will help the education fraternity to understand the importance ofMobile learning its Pros and Cons and how it can be used effectively in the field of education in future.

Findings:-
Currentlya student centered approach for learning is possible due to mobile devices these devices are used for enhancing student centric learning in groups by forming collaboration amongst the students , communication based applications, displays related to interactive features, and video feature all these features makes mobile learning advantageous to the students. Mobile technology has the capacity to replaceburdensome resources that includes the textbooks; paper based learning material and visual aids.The technology available today helps students to absorb and handle information. Mobile Phones with features of
Wi-Fi supports on-demand access to information. Mobile devices aids in accessing to classroom activities and information it also helps in providing a variation for learning inside and outside the classroom, in order to enhance learning experiences currently mobile devices are used for online settings.
A very important feature of learning through mobile devices is thatit simplifies online interaction which is an integral part of education this interaction happens between teacher and student, as well as in students. Mobile technology has changed the whole scenario of our life today with the help of text SMS messages information and notices can be send to students especially for distance education or who are continuously mobile because of business or their job requirements is very easy to communicate information to the students which is related to assignment,submissions,information related to their results, changes in syllabus or any kind of cancellations, etc.
Mobile based education aids in supporting interaction at right time, and it allows students to get immediate feedback. With the help of mobile devices Teacherscan continuously update studentson their progress, this enables the teachers to personalize their teaching,this is particularly very important for a businessman who do not have time to attend formal classed and events

Conclusion:-
This research study indicated that Mobile learning has a positive effect on academic achievement as compared to the traditional method of teaching and learning.
This research examined and demonstrated the positive effects of mobile learning towards the students' for their academic achievement, learning and development. The findings of this study has indicated a positive attitude and response by the students towards mobile

learning,this mobile technology has the ability to bring critical advantage along with competency and confidence in the field of education.

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