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Abstract

With the basic unit for learning is information, the tendency for the educational institution to integrate all information related technology into its respective country's school system is expected. However in the middle of the information age, certain devices continue to prove invaluable in the halls of schools all over the world. The I pad is one of the most useful tools that more schools are integrating into both teaching and learning. In this proposal, the use of the I pad will be discussed at length. Other areas that directly affect the growth of the education industry are also critical to such integration, for example, the learning methods and teaching methods are also discussed. The aim is to contest the claim that the use of the I pad in class is a waste of money and an unnecessary luxury. This subject is looked at from different angles, all of which link very intricately and are of fundamental value to the subject matter; I pad are a revolutionary addition to both learner and teacher experience.

Introduction

The information technology age has come with a lot of devices that continue to change the way people work. For instance, the I pad has been one of the most revolutionary devices in the telecommunications industry. With the ability to access the internet, take photos and even have room for a sim card. The I pad was an invention that would change the operations of many organization. The education industry has not fallen behind when it comes to the use of the Internet and other related technologies. More and more teachers continue to integrate the Internet into their classroom. As more and more resources, are found on the internet and the wave that came with digital media. The use of video and podcasts continue to be a significant part of the learning process in the modern classroom. Another leap that pushes the classroom towards integration of technologies is cloud computing.

In the traditional classroom, the hard copy book was the main resource for teachers and students alike. This has changed a great deal with the spread of the internet. For one, a majority of scientific or rather academic work is transferred to the people through the internet. Different accredited online journals and other academic institutions have platforms and resources for students and teachers on the internet. The student portal is a technology in almost every university on the planet. The idea is that if all data in use can be transferred to the internet and processing and computation of this data done on virtual machines, the resulting effect should be safer and more flexible storage for all. The ability to allow universal access to real-time research and a myriad of information is another positive effect of the Internet. For these reasons, the use of devices like the I pad continues to have a significant traction in classrooms across the world.

Statement of the Problem

Does the use of the iPad in the classroom deteriorate the quality of education that scholars receive?

The proposal seeks to look at the learning and teaching processes that students have been subjected to over the years and compare them with modern and futuristic methods of learning and teaching processes that seem to be taking root in the classroom today. The benchmark of brilliant performance in academic settings will, therefore, be a traditional formal classroom. This involves the use of a library, assessment processes, academic resources and the traditional lecture method that has been in use since the beginning of formal education. It is important to note that the differences in performance and teaching, as well as learning methods, will realize the results of scholars. Changes in the teaching methods and learning should reflect on the performance of the educational institution in the long run.

Objective

The Project should be able to analyze comprehensive data on students on;

- The perceived impact of the use of technology in education
- Alternative methods of passing academic knowledge and accrediting this learning method
- Teaching methods that agree with this learning methods.
- Media that is in use and of powerful influence on scholars

Literature Review

Several different technologies have proven to be useful in the world of education. It is important to note that these technologies all start out small. The innovative nature of technology continues to find use in different industry. It is, therefore, important to look at the existing technology and project their application in different institutions. Looking at different technologies, some of these tools can find use in education. Some of these tools are Augmented Reality, Cloud Computing and 3D printing (Grantham 2016).

Augmented technology manipulates the lens and layers a virtual reality through which different phenomenon can be studied and experienced. At the moment, Augmented Reality can have only been applied to mobile applications for educational purposes. There are applications like Google Sky maps that can map solar consulations. Students studying astronomy can look at solar consulations, an important part of the discipline with very little resources. Some of the more integrated applications are Google glass. It is a wearable device that can project a virtual reality to the user (Grantham 2016). One application that remains valuable to education is virtual reality trips. Visits to places like the moons and even harsh climatic regions like the Artic present both financial and physical hurdles in studying them. Integrated Augmented Reality can map these places from the comfort of one classroom. It, therefore, makes the entire trip cheaper and offers a realistic version of the place. In the future, Virtual realities will be the a solution for many schools across the globe (Grantham 2016).

3D printing is another important technology whose application in the field of education grows exponentially. It is important to note that the difference in the application of this tool will improve teaching methods exponentially. One such way is through modeling different devices and complex models (Grantham 2016). Engineering and other sciences often require certain

models to illustrate different concepts and theories. The atom, for example, has been an area of study for a long time. As the price of 3D printer's decline, their use for modeling in classrooms will significantly increase. It provokes thinking from a different perspective and inspires a deeper understanding of complex theories (Grantham 2016).

Cloud computing is another important technological advancement that presents much useful influence in education. The cloud is a technology that allows people to work on different projects and store them remotely in a data center far from their computers (Poh et al., 2014). In the future classroom, students will work on their classwork and assignments in the cloud. The continued development of the digital library is another important and valuable manifestation of the cloud. Each school will have several resource materials on the cloud, and this will promote the reading and research methods that students will be required to practice (Poh et al., 2014).

There are virtual learning environments on the cloud that allow students access to different educational forum and discussions. These technologies continue to drive the bounds of education to greater heights. It is important to note that as these technologies grow, so do their uses. In the future, the classroom may be invalid giving student's opportunities to learn and pursues their education over the internet (Poh et al., 2014). This has already been seen in higher learning institutions through distance learning. It is clear that the impact of technology on education has barely been seen (Poh et al., 2014). Other technologies have invaluable value to the fields of Education these include, Bio-metrics, multi-touch screens, and online social networking among others (Poh et al., 2014).

Method

Economic benefit

The use of different technological devices had become a basic necessity in today's world. As such there are many companies internationally producing these devices for the masses. It is, therefore, becoming an increasing problem to come to a decision on how to buy these devices. There are criteria that one can use to determine the most economical and efficient purchase that they can make when purchasing tablets, desktops, and laptops. The following is an analysis of such a purchase under these three categories. The budget for all three is \$500, \$1000, \$1500 respectively ("Buying A PC, Laptop Or Tablet? Here's What To Know" 2016).

The Tablet is one of the most sought after gadget in the 21st century. It has different uses that range from reading books, magazines, and articles on the internet, to gaming and even word processing. It is thought that in some lengths, the tablet as meant to surpass the Laptop. Getting one is, therefore, an issue that most people look to find a cheap and durable device. On a budget of \$500, there are several options that a person has. The I Pad Pro is one of the best purchases that a person can make. The tablet has a 9.7-inch display, a 12-megapixel camera able to shoot 4K video and images. The tablet also can stream 4K videos as it has an A9X processor. In addition to this, the machine has over 10 hours battery life making it one of the most effective purchases on the market ("Buying A PC, Laptop Or Tablet? Here's What To Know" 2016).

Another device that has continued to remain relevant in the world of technology is the Desktop Computer. It is important to note that although this is bulky and stationary, it has failed to become irrelevant. There are several options when one is on a \$1000 budget. The first thing that a person looks at when making such a purchase is the hardware accessories that come with the system. It is important to look at whether the computer comes inclusive of the mouse,

speaker, and keyboard. In this age, there are options of whether one can have a separate tower or if they prefer an all in one hardware format. This of course depends on the space preferences of the buyer. Given this, it is important to ensure that the processor of the tower is at least a fourth generation processor. In addition to this, the machine should have at least 8 GB ram and a 500 GB storage capacity. Some of the desktop computers that satisfy all these qualifications are HP Envy and Acer Aspire Z ("Buying A PC, Laptop Or Tablet? Here's What To Know" 2016).

The Laptops are another important device that is in use in this era. The qualification of a laptop is more or less the same as that of a Desktop. The RAM and the Internal Storage of laptops are important features. This is because, like Desktops, they are expected to perform the same functions. Because of portability, having laptops with more than 15 inches. It is also important to ensure that the battery life of the laptop does not last less than four hours. Laptops are portable devices and like tablets must have serious provisions for the battery life for when they are not plugged in. The processors, on the other hand, can vary from the Celeron processor all the way to the i7 processors. Under a \$1500 budget, there are several options for buyers of all kinds. Some of the Laptops that qualify them for these purposes are, ASUS ROG G752VL, or the Lenovo Y700 ("Buying A PC, Laptop Or Tablet? Here's What To Know" 2016).

Student-Centered Learning

The different ways in which technology has affected industry and civilization in general has restructured the method in which people converse and how people relate to other disciplines. Commerce, for example, has found an infinite market on the internet. One of the prime applications of information technology is in Education. It is the beginning of all industry. Integration of information technology in a sustainable manner to education can have the very fundamental impact on the quality of education that scholars get. It is important that in inducting

technology to education, that the focus remains on the curriculum as opposed to the different capabilities of technology. It has been known to be disruptive in some classes, but the positive effects still outweigh the negative ones (Dawson & Rakes, 2003).

The goal in an induction of technology into education must involve intricate critiquing of the different teaching methods that are in practice and the learning patterns of different students. This is the only way that integration of technology in education can focus on the student (Lai, 2015). Designing a student-centered approach depends on the needs of the student. Studies show that the memory of children is stronger as children because of the active cognitive learning. This is the process where children are left to learn from their experiences and environment as opposed to being told what should be learned. The internet is one of the best ways that such a learning tool can be used in the classroom and used actively and effectively. For instance, by exploring their interest's in a freer environment, students can grasp the material in a deeper more personal manner. This is one of the prime methods that student-centered integration of Information technology can see success in the classroom (Lai, 2015).

There are several significant positive advantages of having the right set of skills after studying. By having the opportunity to analyze critical data, and compares different studies students are able to understand the concepts that are taught in the traditional classroom. The use of digital media in the current education ecosystem. By integrating videos and podcasts with education, the industry has slowly shifted focus to institutional certification and pointed towards the ability to develop skills like critical analysis. It is important to note that with such improvements to the brain function, students can come up with brilliant, innovative products from which society can benefit. This impact has also been seen in teaching in several different lights (Vonderwell & Zachariah, 2005).

Teaching can also be given several important advantages through extending these practices to students. For instance, the use of long distance learning has been a significant part of the modern education system. Professors and Scholars can, therefore, study course beyond their immediate resources. In any discipline, it is important that the teacher guides the lessons towards the desired requirement. Having these programs enables students from poor financial backgrounds and empowering them with the tools to make it in the world (Vonderwell & Zachariah, 2005).

Another benefit that can be seen as far as the integration of technology to education that can be highlighted is the ease of digital assessments. More scientists are coming up with different algorithms and functions that allow them to interpret and assess human thinking through exams and other forms of brain teasers. All across the internet, there are different tests and programs that persons of all ages can take with a guaranteed certification from credible academic institutions (Vonderwell & Zachariah, 2005). This is a capability that had not previously been exploited on such a scale. Students can take a test from Ivy League Schools without physically attending these prestigious higher learning institutions. Grading and ranking internally in schools is also easier.

As a whole, technology allows the conditions necessary to facilitate smooth and student-centered learning through computation of academic processes and information and compilation of this data on a universal scale and standard. Having equal resources that apply to both developed and developing countries, gives a broader and much more accurate assessment of the quality of learning and students that another world has to offer. In this way the institution of education becomes self-sustaining. The integration of technology has brought the educational institution into the twenty-first century in a futuristic manner. A strong culture for learning and

self-exploratory education has grown thereby ensuring the culture of education remains firm in the world (Dawson & Rakes, 2003).

The introduction of technology has also enabled different institutions to form subject areas that can further these already significant impacts. Robotics, nanotechnology, computer science among other continues to be a prime choice for more scholars across the world. In a commercial sense, Information is also a significant seller in different perspectives. It is important to ensure that these tools are protected and furthered through innovative practices in both learning and teaching. The influence of technology on education has yet to be peaked (Dawson & Rakes, 2003).

Results

Discussion

The information age has influenced a lot of different industries. With automation of the healthcare system, to improvement in the way the administration of countries is run. The education sector has not been forgotten in this technological revolution. There are several areas that the education sector has seen significant change. One of the major contributors to this change is the Internet and telecommunications in general (O, Harol & Pritchard, 2014). This is perhaps one of the most influential tools in the education system. Education is the act of passing knowledge from one party to another. It is important to, therefore, look into how these tools have influenced both learning processes and teaching methods. In addition to the internet, certain advancements in other sectors like energy have also significantly improved the education systems, particularly in developing nation (O, Harol & Pritchard, 2014). The following are some of the methods that the education system has seen significant improvement due to these technological advancements (O, Harol & Pritchard, 2014).

The first influence is that technology itself has become a major content area of study. Different programs on a global scale look into the technologies that have been developed and their applications to the lives of people across the world. There are courses on programming languages, robotics, and even multimedia. The world has become a predominantly technology dependent place, and this means that the management and uses of these technologies will require persons skilled in these systems. Technology has therefore become one of the largest content learning areas (O, Harol & Pritchard, 2014).

An important impact in this is the influence of the cognitive skills that students have developed. In a study to improve the writing and information gathering skills of sixth graders, a

project used multimedia technology to improve these skills. The resulting effect was that these individuals were able to understand cause and effect concepts better, use elements as such as main ideas in expressing themselves and even improved their recognition skills a great deal. As a result of improved cognition, these students were able to improve their writing skills (O, Harol & Pritchard, 2014).

Reading and comprehension have also seen significant improvements due to the use technology. The continued use of different digital media in the learning has improved significantly the reading habits of scholars. The use of audio, podcast, hypertext, hypermedia, web pages and so forth has significantly increased the comprehension skills and vocabulary of scholars. It is important to note that these forms of media motivate reading, metacognition, comprehension and engages the minds of scholars unlike any other forms of media in the past. The result is an improved reading culture and high comprehension skills (McCoy, 2016).

One of the most significant methods that technology has etched into the education system is through language acquisition. The Internet is by far one of the largest directories of different languages around the world. It is important to note that the different digital media through which these languages are expressed are easy to remember (McCoy, 2016). They inspire a certain memory links improving the chance of acquisition for users of these technologies. For example, the availability of authentic information via video recordings makes recall a possible activity. These forms of communication are not only authentic but also meaningful (McCoy, 2016).

Literacy and language are not the only areas in education that have seen significant improvements regarding scholar performance. Math scores have also improved significantly with increased pervasive nature of technology. Children in elementary school can make mathematical connections easier with the use of hypertext languages and other programming

languages. A study indicated that the scholars that were used to video as a media showed improved mathematical achievements. In addition to this, these children were noted to develop different competency skills. For example, the students that were exposed to computers and the internet developed self-learning initiative (McCoy, 2016).

The research facilities in different institutions were primarily their library. Such collections though relevant to the curriculum of these schools. Since the Internet bubble burst, there are no limits to the research that students can perform on their computers (O, Harol & Pritchard, 2014). Different databases, online journals, and encyclopedias continue to be places of reference for course work and personal studies. The ability as far as research is concerned to stretch a great deal. Due to these tools.

Education has seized to be a regional activity and grown to expand to a global state. Different schools and persons continue to network through different methods, like chatting in different forums, and social media platforms. Video conferencing is also an important part of the global education movement. Teachers are also able to record certain lessons and post them online thereby opening up online classes that are watched on an online basis. It should be noted that as far as global online learning is concerned, anything can be learned through the internet. This ranges from music to engineering (O, Harol & Pritchard, 2014).

The internet has also allowed for different programs like distance learning to be effected over the internet. It is important to note that as more people seek education, the cost of formal learning has significantly increased. It, therefore, has come up with a significant learning tool. Distance learning allows persons in different parts of the country to gain knowledge and skills necessary to change their world. In addition to online degree and masters courses, there are web seminars, where schools cannot afford to take their students to field trips. Field seminars allow

these students to learn through virtual reality. Space trips and tours to certain museums are examples of trips that students go via the internet (O, Harol & Pritchard, 2014).

Education has not only improved the learners experience but also significantly improved the teaching methods that teachers use in teaching. Different teachers have been able to pass the knowledge that they have through improved incorporation different digital media in their classes. Teachers in large institutions can employ tools like microphones to improve their audibility in classes. The use of visual aid has also improved the presentation and delivery of academic work. Students can engage better themselves in the classroom through the use of these aids.

Information access has also significantly improved. Many organizations continue to push the bounds of education and then reality this information for free on the internet. In addition to this, different methods of storing data have come up, and this improves significantly the methods through which data is stored. This is not only accessible to the masses but also has allowed safer methods and more sustainable storage methods. In addition to the storage, the volume of material that can be accessed has significant been reduced thereby improving the ability of persons to carry around large amounts of data on small devices like Flash disks and mobile devices.

Different technological areas have also seen the improvement of education access and standards in different parts of the world. Development of the energy sector has for example improved access to educational tools in developing countries. Developing countries are set to benefit the most from these technologies should they implemented on a commercial scale (Kirimi, 2014). The education systems in Africa, for example, continue to show very limited access to essential resources. The classrooms in these countries barely qualify to promote ample learning. The primary reason for this deficiency is that the cost of energy production continually outweighs the ability of these countries to support them (Fairbranm, 2014).

Energy is a basic requirement that allows most countries to support processes of development. Wider access to renewable sources of energy is like to improve the opportunities that are available to scholars across these countries (Kirimi, 2014). In this way, these countries will be able to achieve faster their economic and social goals faster (Fairbram, 2014). An example of a direct application of the impact of these technologies is the ability to realize online support and training as well as teaching and reading resources for schools in remote areas. Other infrastructure like electricity and affordable means of transport can facilitate practical education programs and also improve the quality of education that these areas receive. In the last instance, the future of these institutions is guaranteed with a greener world. Renewable sources of energy improve the environment, therefore, safeguarding the future (Fairbram, 2014).

Looking at the different benefits of technology, the availability of worldwide access to technology is perhaps one of the most important steps that have improved the standards, of education around the world. Students can compare the different methods of teaching in other countries and then make changes on their own (Oak, 2016). An example of such influence is the Montessori teaching methods that have been adopted in different countries. Countries whose initial methods of teaching were not of the same style now employ this teaching style (Oak, 2016). In addition to this, the need to acquire information has grown a great deal since the introduction of digital media. The presentation method of these types of media makes education interesting compared to dull methods that existed before these technologies.

It is important to note that as the technological wave continues to expand and technology itself takes root as a subject study area, the people that are at the forefront of this wave may lead the world to a completely new era where the term education is synonymous with technology (Oak, 2016). As more generations enter the world that is pro-information, the engagement,

motivation, and comprehension of this information continue to take a center place in the different industry and education (Oak, 2016). There has been a significant change in the education of persons across the board. It is important to note these differences continue to change the way that students learn across the globe. It is not certain the extent to which education will change but what is certain is that this wave continues to shape our lives (Oak, 2016).

Recommendation

Looking at the impact of technology on learning and the methods that enhance learner retention and understanding in class, there are several positive pointers that one can note from the inclusion of I-pads on the student and the teacher. For one, digital media is the future of communication. It will be very important scholars get acquainted with getting information from these sources. Secondly, there are quite some benefits of using such information is invaluable It should be noted that a majority of the persons using the I pad for reading learn cognitively. They can guide their reading towards areas of interest to them. They, therefore, recall and understand more than convectional learners.

The benefit of having the I pad as a tool for learning is a positive step into the future. The benefits outweigh the disadvantage of integration of the technology. For this reason, it may be of significant value to the scholar of the future if the I pad was to be used effectively in the classroom.

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