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Elevation of Teaching and Learning Pedagogy Through the Use of ICT at Seminary Level: An Analysis

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ABSTRACT

In education, technology offers a wide range of learning dimensions, which leads number of participants in occurring knowledge that will bring the reticent students into touch with technology. The modern inventions in education changed the teaching and learning methods into distinguished practice. Moreover it promotes the learning environment of students' assistance with teachers dynamically. Various inventions continued to be acquainted with accelerates, teachers are becoming more regulates to engage and keep them captivated. Technology should be very quality content in the learning process. Integrating the modern technologies in an accurate level can really bring the spirit of classroom learning. If education offers suitable situation, prompt atmosphere and accessibility of modern technologies that make the students interest on learning vibrantly. The present paper focuses on implementing of innovative teaching methods for effective teaching and learning practice for the betterment of the seminary level students.

Keywords: Innovative pedagogy, Technology, ICT, Teaching and Learning

INTRODUCTION

It is a world of digital era which makes the people to keep constant touch with technologies and its features. Using technological tools is easy for teachers in imparting subject matters and students can grasp them easily, which also brings the students in the right way to get success in their academics. Students should become brave promoters to develop the sorts of learning dispositions which is needed for today and tomorrow. Using current technology and it features in classroom makes the students into more active in their learning process. Nowadays teachers can simply explain through tutoring and supply more time in experimental by the use of technology. In this regard David Starbuck rightly states:

Knowing how to learn can unlock all sorts of possibilities in pupils. If they learn the study skills of how the brain process information; how they can participate more actively in the learning process, what their preferred learning styles are, and how to revise effectively, then they can be empowered to take more interest in and responsibility for their work and there can be real improvement in pupils' learning performance (35) (Starbuck, David. 2008).

ADVANCEMENT IN EDUCATION

Teacher looks at things different, it makes them better design thinker. It is necessary to adopt the teachers to meet the realities and challenges of the students. To uplift the technological advances of every nation, the education system and its environment should be engaged with modern inventions. Working with modern tools in institutions will bring creative and smart personalities for the future of the nation. In relevant to this, Edward B. Fiske remarks:

Technology has given us the concept of the "smart machine" – one that, instead of simply repeating the same operation over and over in rote fashion, is capable of receiving new information and altering its actions according. The emerging global economy requires workers who are "smart" in the same sense: workers who can analyze new situations, come up with creative solutions, and take responsibility for decisions relating to the performance of their jobs. The functioning of a modern democracy requires citizens with similar skills, and to produce "smart" workers and "smart" citizens, we need "smart" schools and "smart" kids. (27) (Edward B. Fiske, 1991)

According to his view technology brings prevailing force in education and it opens many doors of opportunity for students to meet the challenges. It promotes great differentiations, individual learning, real world integration, and varied assessments. It is inevitable and necessary to incorporate digital advances into the classroom. Technology should be available for students to meet their future; education must utilize the most advanced tools. Teacher's preparation and professional development programs are vital for continual innovation to develop a generation of intelligent teachers.

MODERN TECHNOLOGIES IN CLASS ROOM

In many ways, technology is used as communication medium for people. Education sector should have various types of communication facilities, because the facilities are useful for whole people. In view of this, Neelam Yadav suitably comments:

The history of man and the history of communication seem to be synonymous. One cannot be separated from the other. The different types of inventions and discoveries that man has so far made are all to enhance his ability to communicate and to make his work better and easier (317), Neelam Yadav, 2003)

Continuous changes and inventions will create incomparable success in education sector. Students are in need a class room of dynamic in the modern education system. Similarly, Bruce Joyce accurately opines:

Imagine a school where the various models of teaching are not only intended to accomplish a range of curriculum goals but are also designed to help the students increase their power as learners. As students master information and skills, the results of each learning experience is not only the content they learn, but the increased ability they acquire to approach future learning tasks and to create programs of study for themselves (10) (Bruce Joyce, 2005)

Having technology in the right path really carries the strength of classroom learning. With the expediency, protection and suppleness offered with new technologies, students would have more interest towards learning. The current technology should build a vibrant future for the massive modernism. In this case teachers should be aware of the technologies before students then only a teacher can become a good master in the classroom of modern. Information and Communication

Technology has become a part of the society for the betterment of the people. In relevant to this, Hall Lynda and Ryan Malcolm clearly quote:

In the future, access to information and learning will increasingly depend upon proficiency with current technology. Teachers also need to acquire and develop ICT skills as active members of society, but in addition they have a professional responsibility to learn how to evaluate and use ICT effectively in teaching and learning (103) (Hall Lynda, 2000 and Ryan Malcolm, 2000)

Some of the modern technologies are given bellow which can be used in a modern classroom;

Digi-school:

Digi-school is an interactive browser based E-learning portal that uses the power of multimedia to make learning an enjoyable and meaningful experience. Come out from the old Chalk and talk method, enter into new digital method. Digischool has a marked impact on the way students learning and approaches in academic. It felt Digischool has led to increased interest in academic for the students and led to better understanding. Digischool will mark improvement in the classroom environment, and then the classes have become more interactive and less monotonous. The whole experience will become more enjoyable for students and teachers alike. It promotes capacity development for teachers and other stakeholders to equip themselves with wide experience of Information and Communication technology in teaching and learning (R Sugant, Dr. SandhyaAnvekar, 2014).

Class Websites:

To help students, teachers and parents to be in touch, a modern classroom should have a personalized website. This web sources afford a single place for everyone in the class to converse any associated things. One can access the website for announcements, events, & calendars and students can have a look at the upcoming assignments and syllabus. The website can even include additional sections like students can discuss on any subjects and contests as part

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of some celebration or pronouncement making. (Nazan Dogruer , Ramadan Eyyam , Ipek

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Menevis,   2011).

Interactive Whiteboards:

The interactive whiteboards can be connected to computer are really changing the way different subjects are covered in class with a help of a digital projector. These large computer monitors are also visually appealing for students and teachers can easily handle multimedia presentations. Teachers and students even have the option to draw or write on the board with ease using its touch screen capabilities. It allows items to be clicked, dragged, copied and even the handwriting of notes is possible. The education system has experienced tremendous changes in the past few years as the traditional heavy text are being replaced by convenient e-learning while notebooks are replaced by devices like interactive whiteboards (Glover, D. & Miller, D. 2001).

Quick Response Code:

Quick Response codes are visually scalable data matrices. This QR codes can store Uniform Resource Locator, text, math problems. To redirect the device one has to scan, it will take to a website which contains more details about the thing scanned. The technology that needed for decoding the images is smart-phone or iPod with a camera and installed QR code reader applications. QR code makes very different from Google search it takes the reader directly into the exact data. One can find clear-cut way in searching for particular data (Andrew Walsh, 2009)

3D Printing:

If students access to 3D models of elements, they feel very easy to cover their subjects with this technology. This will help the students to have enough understanding compare to a text book pictures. This technology will omit the limitations of experiments and enhance more possibility of experiments. It cans freely experiments without spending much emphasis of time and costs according to their preference. A teacher can make the complex one into easiest for the students in learning any difficult concept. (H. Lipson, M. Kurman, 2013)

Online Social Networking:

The social networks which play dynamic roles in improving engagement, interaction and team building actions in the classroom, these tools can act as an interactive learning place to

discuss home works and assignments. E-learning sources inside the classroom will become more advantage for students can make use of these opportunities to socialize among students and teacher. Teachers can act as moderators and students can utilize this platform to share their ideas freely with friends. Such opportunities for students can help them to identify their role in taking up learning as a personal responsibility. (Black, R. W, 2005)

Student Response System:

Student Response system would help the teachers to get feedback about the teaching. After every class this modern tools Google Forms is helping the teachers to develop well again approach in the next class if needed. Teachers can bring any form of changes as per understanding capacity of the students. It is also a good way to make in-class quizzes or polls at the time of decision making with regard to any event. (Dangel, Harry L. and Wang, Charles Xiaoxue, 2008)

2.8 Cloud Computing:

Cloud Computing helps a lot for the students for their home works by avoiding most difficult. Students have to login to their device to do their homework at home what was saved in their classroom. There is possibility to go through materials from digital library with internet connection. Students can work at any time as per their willing. There is an opportunity for virtual learning in cloud computing process. (Venters, W., Whitley, E.A. 2012)

Document Cameras:

When there is wide audience one can use these document cameras. Students become more interested in visual treat of lessons from accurate display of the text in big screen. Document cameras easily capture movies also with audios. Teachers can use SD cards for teaching because it can store contents. (Levin, 2007)

Virtual Field Trips:

The virtual field trips will prove real benefits for modern classrooms with in limited time to go out of classrooms and discover different places and subjects. The students have a guided study with boundless of World Wide Web. Teachers also add tools for visualization, modeling

and simulation along with this digital trip to enable them to think critically. They can engage in data collection and analysis, scaffolding and discussion to get the better out of this experience. Virtual studios are also slowly becoming an important tool in today's classroom. (Onur

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ÇalÕúkan *, 2011)

Artificial Intelligence:

Students are unique and liked various style of learning at this junction the same or usual way of methods will satisfy all students. So different of teaching and learning will give better attainment with artificial intelligence. They can look up the lesson with access to this type of technology according to their preference. The customized learning is key factor to develop the backdrops of various students with mobilizing machine learning and artificial learning. (Indrasen Poola 2017)

Biometrics:

The modern technology provides enormous advances in the present days and it opens multiple opportunities to experience with it. Moreover one has ample chances in education sector. If a teacher wants know how a student understand or really observe the subject with eye tracking. Facial recognition and fingerprints are very useful to borrow books in library and for attendance in the class. (RR Donnelley , 2008)

Games in Education:

The students always love to play games, if we guided them in a useful way, the games also will become a greater platform for learning. It helps the students to learn some subjects, concepts, reinforce development, historical events and customs by assisting in learning a skill as they play. Games with education will fulfill one's basic and additional needs to learn. It will provide joy, involvement, motivation, encouragement, creativity, coal in the game itself makes the people into well resource. **(**Dave Moursund, 2006)

Video Conference in teaching:

Video conference in teaching is use to connect various people from different institution and organization. It helps to provide sources for wider audience. Here, one can bring pictures,

content; videos and students can clarify their doubts from the tutor. In a short period, many people can get the benefits, it saves the time. It becomes convenient, easier and provides better communication opportunity with the use of software like Skype and YouTube. This type of teaching can give good understanding of anything through visual form and it can be well memorized. One can refer more materials; resources and can store those materials for later review. (Lydie D. Paderanga, 2014)

Educational – CD's:

Educational –CD's omits the limitations of internet browser by offering solute materials to the hand. People can use at any time without difficulties, it directly take the readers to reach the exact searching information because it can store vast textual content, power point presentations, videos, including entire web sites. It really takes away the people from the limitations e-learning. (Kalburan ,Nilgun Cevher, Yurt, Ozlem, Omeroglu Esra, 2011)

Education Apps:

The Apps which one has in the mobile phone especially educational apps is very beneficial for the learners. It provides ample choices of learning as convenient to the readers. It becomes very essential for the modern education. Now a day mobile usage becomes very habitual of many people. The mobile can store many education apps which is useful to teach and asses the students in a smart way. Some of the education apps are follows;

- ➢ Animal 4D**+**: Animal 4D+ Alphabet Cards are an interactive aid to learn about animals through augmented reality. Cards introduce children to letters and a visual representation of an animal that begins with the corresponding letter.   Invite and make friends with animals round the globe to your home with Animals4D. It enables kids to experience the wildlife in life-size like never before. Animals4D is packed with amazing features like "Spell Me", which helps kids to spell & pronounce the name of the animal right. It also has an innovative feature like "About Me", help kids to know about the animal's life style and class. Cool, Angry, Attack is the exclusive features in which animal's express different moods.

- ➢ ClassDojo: ClassDojo is a classroom communication app used to share reports between parents and teachers. Teachers track student behaviour and upload photos or videos. The

gamification style system teaches developmental skills through real-time feedback. The application, which has been translated into 35 languages, has been used in 180 countries. ClassDojo is available as a web application that can be used on any device with a web browser, and also as a native application for iPhone and Android, with a website in HTML 5.2. The program can be viewed on any mobile device including Android, iOS, and other phones and tablets. (Burger , Michael Scott, 2015)

➢ Google Classroom: Google Classroom is a free web service developed by Google for schools that aim to simplify creating, distributing and grading assignments in a paperless way. The primary purpose of Google Classroom is to streamline the process of sharing files between teachers and students. Google Classroom combines Google Drive for assignment creation and distribution, Google Docs, Sheets and Slides for writing, Gmail for communication, and Google Calendar for scheduling.

CONCLUSION

Assessing modern technology in education, students are getting all freedom to express their thoughts and creativity. A sense of pleasure and the opportunities to explore new technology helps students to approach the world of learning in a positive mode. It makes learning interesting and engaging, especially for younger generations raised on the latest technology the modern classroom experience has really changed the way students perceive education and they love this phase of life than ever before. With more and more technologies to be introduced in the near future, tomorrow's classrooms would be a better place for students. Education with new inventions helps to build technology-based skills, allowing students to learn, early on, to embrace and take advantage of the tools technology offers. Modern classroom improves student's engagement, improves knowledge retention, encourages individual learning and encourages collaboration. Technology and other changes in society demand innovation in education. A number of schools face challenges such as; underfunding, unengaged students, and outdated curriculums, innovation offers a path forward. Education stands to benefit the most from both utilizing and teaching innovation in the classroom. Exploring new and better ways to educate students and also teaching the skills students need to become innovators themselves, educators can have a tremendous impact on the future of our world.

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