Computer Based Technologies for the Modern Teacher

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Abstract— With the cutting edge improvement of innovation in all circles of life, the advanced instructor can't manage without it. Innovation in instruction is an absolute necessity center subject for any cutting edge educator. In spite of the fact that it has its benefits and faults, its upon the educator to build up his aptitudes in recognizing, choosing, creating, using and putting away of current innovative educating and learning assets that are getting mandatory to use in class. In this paper, we will talk about the diverse innovative instruments that a cutting edge educator can use to supplement his teaching. Csikszentmihalyi's stream hypothesis was utilized to show the significance utilizing innovation in the homeroom.

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I. INTRODUCTION

Over the most recent ten years, innovative headway has changed definitely. A genuine model is the distinction between a TV produced ten years back and the cutting edge savvy TV. There exist a great deal of contrasts as far as effectiveness, audio_ visual quality movability and similarity with different gadgets like glimmer plates and PCs. A telephone made fifteen years back, can't also contrast with the current cell phones, which have extra highlights and are progressively effective and has various use than the old telephones. Aside from quick mechanical progression, it has too infiltrated in all circles of life be it amusement, instruction, person to person communication, multi channel correspondence among others. Because of this headway, the cutting edge educator should utilize innovation in the learning procedure. Luckily, the vast majority of the mechanical apparatuses are promptly accessible rather than yesteryears. The known advantages of utilizing innovation in class are many. Innovation makes understudy dynamic in class and diminish weariness. It additionally supports helpful learning and gives basic mechanical aptitudes to understudies, which they can apply in workplace in the wake of graduating. On the educator, innovation will help him in getting ready and sorting out his exercises for an entirety term,developing intuitive substance, persuading understudies in class, making the exercise fascinating, moment self assessment furthermore, appraisal of students. In this paper, we will talk about the extraordinary innovative apparatuses that a cutting edge instructor can use to supplement his educating, along with their benefits and bad marks. Csikszentmihalyi's stream hypothesis was utilized to show the significance of utilizing innovation in the study hall. In this paper, we will talk about the diverse innovative devices that a cutting edge educator can use to supplement his educating. As indicated by Csikszentmihalyi 1997, a decent stream may be made when the educator knows about the passage conduct of the understudies particularly the aptitudes that can manage him to utilize innovation, which will give the right level of challenge to the understudies.

Before we begin examining the different PC based advancements, we need to state that the cutting edge instructor must have three things. These are a PC, Personal Digital Collaborator (PDA) and a decent web association. A PDA is a hand held contraption like a tablet or an advanced mobile phone that has the abilities of a little PC.

A. Teaching and Learning Technological Resources

There are such a large number of educating and learning advances which the instructor can use in his calling. Before picking any class of the mechanical assets, the instructor ought to think about the accompanying variables:

1) Subject: The instructor should choose the innovative instruments which are applicable to his subject. For instance, a language educator can't utilize lab try recordings to encourage sentence structure.
2) Instructional Objectives: The educator should choose and use innovative gadgets that can cause him to accomplish the instructional destinations of his group. For instance, a photo of a leaf can not be utilized to educate the understudies to articulate the sound/b/
3) Portability: The advances picked ought to be without any problem compact and moved starting with one class then onto the next and from office to class.
4) Availability: The educator should choose assets that are effectively accessible in his condition.
5) Cost: The innovations chose ought to be financially savvy regarding buy, support and capacity.
6) Entry conduct of the understudies: The instructor ought to select the innovations, which the understudies can without much of a stretch control and use.
7) Manipulation abilities of the educator: The instructor ought to select a mechanical device that he is utilized to and can work. Envision a circumstance where an instructor can't switch on a LCD projector in class!
8) Environment: The educator should choose a mechanical instrument that is natural well disposed in that it doesn't dirty air, soil, water sound, and so on a circumstance where a innovative gadget brings superfluous unsettling influence ought to be maintained a strategic distance from. The instructor ought to likewise guarantee that the innovative apparatus chose could be controlled in his condition. A genuine model is guaranteeing accessibility of power and Internet.
9) Time: The innovations chose ought to be time amicable in that the operational time like opening the gadget ought not take more often than not distributed for the exercise. A cutting edge educator who means to utilize these advancements needs to have an individual PC and web association. We will partition the innovative assets in four significant classes as follows:
    1) Teacher readiness advancements
    2) Presentation advances
    3) Storage advances

B. Teacher Preparation Technologies.

Before the educator goes to class, he needs to get ready. In the readiness stages there are some mechanical assets that he can utilize.

1) Word Preparing Applications

The educator can utilize this accessible applications to plan plans of work, exercise plans, type his notes, set assessments, get ready outlines, tables, diagrams and so forth. Favorable circumstances of word applications are that they are free and accessible in all advanced work stations, PCs, tablets also, cell phones. It is additionally simple to utilize if the educator has composing abilities. The instructor can spare his report effectively for future use. It is anything but difficult to alter it. The instructor can undoubtedly embed photos, outlines to a word report. The educator can likewise install video and sound clasps and play them on the word report. As per Melendez (2018), Word application has the accompanying focal points: Enables various individuals to take a shot at one record like while setting up a term paper where a few understudies can take a shot at one anticipate, the educator is additionally empowered a wide selection of textual styles, text hues which can make his introduction appealing. Disservices incorporate that the educator should be gifted in composing, replicating, embeddings, sticking, erasing and working words applications. It's inclined to written falsification since it is simple to duplicate one's substance and glue it. Another hindrance is that it expects capacity to work.

2) PowerPoint Application

The educator can utilize this application to plan point structure substance to introduce in class. PowerPoint is regularly introduced in slides structure, which can be made alluring to guarantee the leaners react to them emphatically. Points of interest of PowerPoint application is that the instructor can embed any sort of media which can be played or worked in class. For instance, the instructor can embed pictures, drawings, sound clasps, and recordings. As indicated by Sheehan (2019), the instructor can print the slides and give the understudies as gifts. Also, the instructor can present to a bigger crowd than when utilizing word applications and it is anything but difficult to present in class. PowerPoint accommodates 'mystery notes which just the instructor can see when introducing to the class. PowerPoint application is additionally free and accessible taking all things together PCs. Drawbacks of PowerPoint is that the educator needs a few propelled aptitudes than word applications to set up a introduction. Another disservice is that it requires power to work.

3) Excel Application

This application can be utilized by the instructor to get ready outlines, tables, which he can duplicate, and glue in word or PowerPoint introductions. It additionally it has inbuilt numerical recipes which the instructor can use in grades figurings Preferences of exceed expectations application is that the instructor can utilize it to get ready bright outlines by simply entering the information consequently. This application is additionally free and accessible in most PCs. Hindrances of this application is that, it requires propelled aptitudes for use. Power dark out blocks its work in exercise readiness

4) Audacity Sound Delicate Product

In spite of the fact that there are a few sound delicate product, dauntlessness is the most suggested in view of its few focal points over others: it is allowed to download and utilize. It is anything but difficult to use since it requires least operational abilities. The instructor can utilize this delicate product to record and alter sound clasps for class use.Its detriment is that it requires MP3 player and speakers for the students to profit by it. Power dark out obstructs its capacity in exercise readiness.

5) Searching Motors

The educator can utilize web crawlers to look and download exercise substance while setting up the exercise. The pursuit motor incorporate Google, Yahoo, baidu, Aol, ask.com DuckDuckGo and so on. The benefit of Search motors is that they give promptly accessible substance in all field. They are additionally efficient and are allowed to get. The detriment of depending on this web indexes is that they require web associations with look for content. The instructor should be cautious when utilizing this web indexes since legitimacy isn't 100 percent ensured. Search motors likewise empower sluggishness and plagiarism.

6) Internet recordings locales

There are a few web video locales that the instructor can utilize to get to recordings to use in exercise readiness and introduction. A portion of the top video locales incorporate; YouTube, Vimeo, Metacafe, Daily motion, Veoh, The web document, Jerk, The open video venture, 9Gag, Ted Talks and so forth. Focal points of video destinations is that the educator can download or on the other hand live stream recordings that can be utilized in his branch of knowledge. The educator can likewise plan recordings and transfer in some of the locales like YouTube and use them in his group just as gaining from the locales through memberships. Its efficient since it requires web as it were. The disservices of web video locales incorporate the high cost of web charges for downloading and live spilling the recordings. Wrong pop ups and ads. The educator should be cautious while downloading the recordings in request to maintain a strategic distance from non true recordings.

7) Audio Books Locales

The educator can utilize these destinations to get book recordings for all understudies and furthermore extraordinary understudies particularly the individuals who are outwardly hindered. The absolute best locales for book recordings include: librivox, lit2Go, Loyal Books, Mind networks, Open culture, Overdrive, Podiobooks, Project Gutenberg, Spotify, Storynory, SYNC and so forth. The upsides of book recordings are that they can be gotten to effectively and they are free. It spares time, it serves best where books are least or not accessible. Impediments of the book recordings are that they require Web to download and live stream, can't work where there is power dark out.

8) Still Photographs/Pictures Destinations

Still photographs/pictures can be utilized to enhance exercise readiness advertisement introduction. They exist in various structures, hues, shapes that are alluring and additionally engaging the students. The destinations include: google pictures, unsplash, Gratisography, Morguefile, Pixabay, Stockvault, Pikwizard, Rawpixel and so on. The benefits of utilizing this destinations is that they are free,

promptly accessible and there exist wide scope of pictures. Detriments of utilizing this site are that they require Web.

C. Presentation Technologies

After the arrangement of the substance, the instructor is presently prepared to go to class. In class, the instructor needs to introduce the substance. In introducing the substance, he needs to utilize introduction innovations. In this segment we will examine the absolute best introduction innovations the instructor can use in class.

1) Smart Board

A brilliant board is an intelligent electronic white board, which has supplanted the chalkboard, whiteboard and overhead projector. The brilliant board has a great deal of multifunction. The instructor can compose his notes utilizing an exceptional pen and afterward convert the notes to word or pdf textual style and spare them for future use. The shrewd board can likewise go about as a touch PC screen where the educator can download his notes from his email,, can scan the web for other substance and can likewise present his capacity point or word introduction. The educator can utilize the keen board to introduce pictures, recordings, sound clasps, reproductions and other intuitive arrangements. The educator can likewise welcome the understudy to connect with the savvy board.

- Advantages of utilizing brilliant board are: is paperless innovation, a sight and sound stage, it improves teacher student collaboration.
- Disadvantages of utilizing keen sheets is that it's costly as far as upkeep, buy and fix. It is very fragile and it requires propelled abilities for the instructor to use it ideally.

2) LCD Projector

This projector has supplanted the old design overhead projector. On the off chance that the school can't bear the cost of a keen board, the LCD is the following choice. This machine is ordinarily associated with the educator's PC and it anticipates its substance to a screen or a white painted divider. As the educator controls the PC, the projector extends the substance to the divider.

- Advantages of LCD are that it is less expensive than the shrewd board, simple to utilize and to keep up. Its major inconveniences its heavier and bulky to convey around.

3) Pocket Measured Projector

It capacities similarly as the LCD projector. Its centrality is that it's versatile and in this way progressively effective than LCD.

4) Flat Screen TV.

The educator can likewise utilize the level screen TV to introduce his substance in the class. The TV can be associated with a PC utilizing HDMI link and it will act like a major PC screen. Different TVs models need not to be associated with a PC since it can go about as one if associated with the Internet. The instructor can control the savvy TV by contacting its screen simply like utilizing a keen board.

- Advantages of utilizing TVs are that it's less expensive than a brilliant board and simple to utilize. Its upkeep cost is moreover low. Its weaknesses include: its lumbering.

D. Storage Technologies

In the wake of setting up his substance, the instructor needs secure capacity assets for the substance. Current stockpiling advances include: PC hard plate memory, email, streak circles, SD cards, outside hard circles and cloud.

1) Computer Hard Plate

The instructor's PC has an inside hard circle memory (HDD) which gives the main storeroom of the content. Its points of interest include: the educator can get to it what's more, use the substance at whatever point required. The educates may likewise choose to share the substance to different educators and understudies. The drawbacks of utilizing PC hard circle memory circle include: it can pound and lead to lose of put away information, the information may likewise be defiled by a PC infection, the PC can be taken and the information security become traded off.

2) Email

The educator can spare his substance by messaging to himself or then again by making another contentemail, which he can use to store his educating assets. Whenever utilized astutely, this technique is without infection, and the educator can undoubtedly get to his substance any place he is utilizing another gadget. The instructor can likewise share it effectively with others by simply sending the substance from his email. Then again, messages have least extra room for massive substance (except if the educator employments Google drive). Also, if the email is hacked, the security of the information will be undermined.

3) Flash Plates

Streak plates are little compact gadgets installed with great memory. The instructor can store his substance in the streak plates through the USB. Points of interest of blaze circles are that they are convenient, have large stockpiling limit and have fast of information move and are perfect with a few different gadgets. On the hand, they can undoubtedly get lost due to their size, with time; being tainted by infection can degenerate them. Also, most glimmer plates don't have encryption capacity, which can prompt unstable information.

4) SD Card

It's a little stockpiling medium. Similarly as the blaze plate, it is modest, convenient and can be utilized in PCs, cell phones and computerized cameras. Be that as it may, it can break effectively, it has a short life expectancy and it is sensitive.

5) External Hard Circles

This are hard circles that the instructor can purchase to store the information outside the PC. They have enormous limit with regards to information stockpiling; they have quick speed, sturdy and convenient. Then again, the outside hard plates can be harmed effectively, assaulted by worms and infection. They can additionally get lost.

6) Cloud Stockpiling

This is where the educator's information can be put away also, oversaw distantly and he can get to it anyplace by utilizing the Internet. This strategy is secure when contrasted with email, it very well may be utilized to impart to other people, and the data can be gotten to from any area through the Internet. The impediments are that you have to have Internet to get the information. Security of information isn't

ensured on account of the distant capacity. Taking everything into account, the cutting edge educator has a wide scope of without any problem accessible innovations for his ordinary use. The main thing he needs to do all together be at side by side with the innovative changes is customary preparing on the innovations.

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