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Smart classroom and E- learning: A nostrum in the time of COVID-19 crisis

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ABSTRACT

This paper is all about the much extending technology “SMART CLASS AND E-LEARNING”. The manipulation of smart teaching techniques is now more common in schools also as other colleges and institutes. This new technology helps the scholar with the advantages of learning with a special practice. The methods of e-learning create the classroom more interesting and interactive. The sudden outbreak of a deadly disease called COVID-19 caused by corona virus shiver the entire world. This example challenged the education system across the planet and made educators to shift to a virtual mode of teaching. Many academic institute that were earlier resistant to change their traditional educational approach had no option but to shift entirely to online teaching-learning process. This paper includes importance of smart classroom and e-learning, impact on society, objectives that’s to conduct SWOT, and to supply suggestion, recommendation for the success of online mode of learning, SWOT(STRENGTH, WEAKNESS, OPPORTUNITIES, THREAT),problems of using smart classroom and e-learning and its possible solution. Educators and learners both have to adapt with this modern method of technology for teaching-learning purpose as it becomes an essential element in today’s day to day life. It includes suggestions for academic institutions of how to deal with challenges associated with online learning. Natural disasters can stimulate motivation for the adoption of highly innovative communication technology and e-learning tools. To make e-learning and smart classroom effective in such a difficulty times we need to focus on the use of that technology which has minimum maintenance cost but can effectively facilitate educational process.

Keywords: Smart class, E-learning, Learners, COVID-19, education

Introduction:

Learning isn't what proportion one can control. Its rather the cognizance that remain after one forgets what he/she well-versed in schools. during this present pandemic situation the covid-19 has resulted altogether educational institutes shut all across the planet, as a result education has changed dramatically , with distinctive rise in smart classroom and e-learning .The smart classroom and e-learning approach learners of all ages and it motivates higher level of understanding. During the method the learners activates and build background, process information and modify their learning into a product that shows what they know and reflect on their learning.

2. Smart classroom and e learning:

Smart learning may be a broad term for education in today's digital age. It reflects how advanced technologies are enabling learners to absorb knowledge, skills more successfully and proficiently. Smart class or E-class may be a modern informative content for the scholars. one among the foremost unique and cost-effective platforms to run e-class is PENDRIVE that runs through a TV through a little multiplayer called e-box or directly on the laptops and computers. This contains each subject with a true teacher during a virtual classroom, teaching chapters by chapters making studies as exciting as watching movies alongside unique features like question answer and intelligence map for revision purpose. E class also can be easily loaded on PCs, Laptops and faculty servers etc. Animated videos, science experiments, geography maps and figures and everyone make an exquisite learning experience. they're all prearranged during a pen drive for the scholars in an audio video special effects format.

3. Smart classes and E-learning are no more an option, it is a fundamental:

Smart classroom and E-learning focus at developing the scholar ability because the entire chapters become more interesting to review and hence surpass the results of the scholars. The smart classroom is that the step to the longer term of education also as new creation which helps students to realize more marks. E-learning is an innovative product within the field of learning. At present the main part of the planet is on quarantine thanks to serious outbreak of this global pandemic COVID and thus many cities have transformed into phantom cities and its effect are often seen in class, colleges and universities too. The corona virus had made institution to travel from offline mode to online mode of erudition to make sure the training remains endless process virtually. Connecting students and teachers through digital platforms and necessary software by laptops or androids is that the latest transition in education trying to eradicate the physical need of teachers and classrooms. It's a perfect time to form education delivery to students more efficient and make it more productive through online learning and assessments. Smart classrooms are making everything possible from educators meeting to staff or management meetings, providing informative interactivity. The smart classroom learning approach provides learners walks of life that motivate higher levels of apprehension. Students who are learning in virtual classroom will find that their learning experience is nearly as good as or even better than that of scholars who sit within the classes. The hugely transformative power of virtual classroom is their ability to bring an endless number of courses to students doorstep. During this tough time, the last word concern isn't about whether online teaching-learning methods can provide quality education, it's rather how academic institution are going to be ready to adopt online learning in such a huge manner. The reputation of educational institute is on stake. How well they behave and the way well they maintain the standard of education during this crisis shows their adapting capabilities. The shift from face to face

lectures to online classes is that the only possible solution. At this point the products by Google are often really applicable under such problematic situation: they are a) G-mail, b) Google Form, c) Google Drives, d) Google Hangouts, e) Google Classroom. These tools can successfully be used as an alternate for face-to-face classes. Teacher can choose between a spread of synchronous technologies which contains: a) Slide presentation, b) audio and video conferencing, c) Screen sharing, d) shared whiteboard.

Interaction with students: Students can mean once they want to talk by virtually raising hands. Teachers let students speak through audio and video conferencing. Students and teachers can use instant messaging and chat teachers for asking questions or for any clarification within the chat box.

4. Objectives:

- 1) to conduct Strengths, Weakness, Opportunities and threats (SWOT) analysis of online learning during CORONA Virus pandemic and natural disasters.
- 2) to give some suggestion and recommendations for the success of online mode of learning during a crisis-like situation.

5. Impact on Society:

- a) Education system: the education system is the most infected by this new growing technology. Nowadays the schools, colleges are getting adaptable with projectors, PowerPoint presentations so as to make learning more interactive.
- b) Students: the students now no longer must be dependent on teachers for studies, the smart class and e-learning technologies help a student to cope up with his/her subjects sitting at home. E-learning is becoming popular amidst the students as this makes them independent.

c) guardian: the parents or the guardians have now the power within their reach to make their child's learning interactive as well as it helps them to remain up to date about the latest learning skill to implement to their child's learning plan.

6. Problems associated with e-learning and smart classroom:

There are n number of technologies available for e-learning but sometimes they create a lot of troubles. These troubles are associated with modern technology like downloading errors, asking for updates most of the time, issues with installations, login problems, problems with audio and video, network issues so on. Sometimes most of the students like us find online teaching to be boring, tiring, hectic and unengaging. Personal attention is also a huge issue facing e-learning. Students want two-way interaction which sometimes get difficult to implement. Sometimes face to face interaction e learning is needed for practice class to judge the psychological state of mind whether the students can follow or not. But due to network technical issue it's not possible to do video conferencing class. Lack of electricity and internet connections are the major problems for any e-learning process. The learning process cannot reach its full potential until the students practice what they learn. Sometimes online content is all about theoretical and does not let students practice and learn effectively.

7. SWOT Analysis:

Strength:

E-learning methods and processes are really very strong. These strengths of the online teaching-learning modes can rescue us from these hard times. The e-learning methods permit us to customize the procedures and process based on the needs of the learners. There are plenty of online tools available which is beneficial for an effective and

efficient learning environment. Educators can use a combination of audio and videos, and text to reach out to their learners in this time of crisis to maintain a human touch to their lectures. This can help in creating a cooperative and interactive learning environment where learners can give their immediate feedback, ask queries, and learn interestingly. Students get interested with smart classroom as it sometimes includes innovative audio video process which helps students to remember the chapter as compared.

Weaknesses:

E-learning has certain weaknesses in the form that it can hamper communication between educator and the students that is direct communication is lost. Users can face many technical difficulties that hinder and slow down the teaching process. Due to increase in usage of smart class, the pleasure of using chalkboard and duster disappear. Sometimes student's nonseriousness behavior in terms of time and flexibility cause a lot of problems. All students and learners are not the same, they vary in degrees of their abilities and confidence level. Some do not feel comfortable while learning online, leading to increase in frustration and confusion.

Opportunities:

E-learning generally has a lot of opportunities available but this time of crisis will allow online learning to boom as most academic institutions have switched to the model. Now, academic institutions can grab these opportunities by making their educators teach and students learn via online methodology or process. This crisis will be a new phase for e-learning and will allow people to look at the fruitful side of e-learning technologies. This is the moment when there is a lot of scope in bringing out surprising

innovations and digital upgradation. Though this, teachers can practice technology and can design various flexible programs, for students better understanding.

Threats:

Learners, educators are facing many challenges in online learning and vice-versa. It is a challenge for institutions to captivate learners and make them take part in the teaching-learning process. It is the challenges for teachers to move from offline mode to online mode, changing their teaching pattern and managing their time. It is a challenging to prepare the content of any subject which not only covers the curriculum but also engage the students. A lot of time and cost is involved related to network connection, preparing proper device and equipment, maintain equipment, developing online content and so on. Therefore, an effective and efficient educational system needs to be upgraded to impart education via online mode. It is very difficult for learners to study any paper or any sort of books related to curriculum via e learning because it gives a lot of stress in their mind and they are not at all remain serious in studying those online materials .Not all the teachers and learners have access to all digital service ,internet and Wi Fi. The old teachers who are not aware about the process of usage of e-learning via zoom, cisco webex , or google meet ,google classroom they find lots of problems to cop up in this span of time. Unavailability of proper digital tools, no internet connection or Wi Fi connection can cause a lot of disturbance due to which many students might lose out learning opportunities. Efforts to be taken by the institution to ensure that every students and teachers is having access to the resources. They must ensure that all apps which is used for educational purpose works on mobile phone as well in case students do not have laptops. “PRACTICE MAKES A MAN PERFECT” is the well-known and true catch phrase which tells us the value of

continuous implementation in any subject to learn anything. We must have to practice field on the regular basis in which we want to succeed. So, students and teacher across various universities, or any educational institutes have never really practiced e-learning. Most of them are self-satisfied and stuck with traditional mode of teaching rather than modern mode. The corona virus breakout is the chance to make out the best from the current situation. A lot of tools and equipments are available so educators are required to choose the best tool and implement it to impart education to their students. We can learn a lot from this challenging critical situation. A step-by-step guide can be prepared by academic institution who can guide faculties and students on how to access and use various e learning tools and how to cover major curriculum content via technology. Faculties can present the curriculum in various formats, that is they can use videos, audio and texts. It is beneficial if the faculties use video chats, virtual meeting and so on to get immediate feedback and maintain the personal connection with the learners.

8. Possible solutions for troubles:

A lot of issues are there in e-learning and smart classrooms but we can have solutions to fix those problems or issues. Technical difficulties can be solved through pre-recording video lectures and always keeping plan b ready so that the teaching -learning process cannot be hampered. Online courses to be made more dynamic, interesting, and interactive. Teacher should set time limits and reminders for students to make them alert about discussion session and stay attentive. Social media and various groups can be used to communicate with students. Communication is the key element when it's get difficult to reach out to students via texts, messages, video calls and so on.

9. Conclusion and suggestion:

The e-learning and smart classroom is the chief resource for students needing research, technology which specially aimed at research needs of undergraduate students. Instruction, content, motivation, mental health are the important things that an educator must keep in mind while imparting education. Some teaching strategies (lectures, case study, discussions, game theory ETC) can be used online to facilitate effective and efficient teaching and learning practices. In such distressed situation, where the lives of so many people are at stake, teaching and learning should be made interesting. This will reduce the stress, fear, anxiety levels of people. Natural disasters can stimulate motivation for the adoption of highly innovative communication technology and e-learning tools. To make e-learning and smart classroom effective in such a difficulty times we need to focus on the use of that technology which has minimum maintenance cost but can effectively facilitate educational process. The e-learning and smart classroom provide the educators and learners to learn with a new technique. Tragedy such as COVID-19 can create a lot of chaos and stress therefore, it is important to study or apt with the technology deeply to balance and overcome these fears and tensions.

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