"SUCCESS OF COMPUTER ASSISTED EDUCATION"

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ABSTRACT: The purpose of this research is to explore and dig deeper into the new way of education assisted by computer and its technologies. It throws light on the new innovation of computer assisted education and its success in today’s era. Computer aided education refers to using computer and its devices. It does not mean replacing teachers but teachers using computer devices and its applications to teach like smart classes, videos and web tutoring. This paper highlights how in the situation of pandemic like this, we are only relying on the computer assisted education. Without computer facilitated education today, it would have been merely impossible for us to study and attain education. The world has open handedly accepted the new technology of computer assisted education. This paper is done with the objective to observe the success of computer assisted education.

KEY WORDS- Education, Teachers, Smart classes, Videos, Technology.

INTRODUCTION

“Education is the passport to the future, for tomorrow belongs to those who prepare for it today.” – Malcolm X.

Education shapes our life not for few moments but for entire lifespan. Everyone has wings to fly but not everyone knows how to fly. Education assists us in flying by making a path for us and giving us right directions to move forward into. An educated person has the power to change the world with his ideas and knowledge but an uneducated man is nothing but destructive for the society.

Education is the backbone of the society and government having realized that are empowering education and its areas. Earlier, education relied completely on books and magazines but with the changing world, the world of education is also modifying.
From books we are now shifting to computers and digital products for gaining knowledge, skills and information.

Computer assisted education is one of the most precious gifts of this digital era. With just one click, we can have encyclopedia of knowledge. It refers to gaining education through electronic devices and products. Now, no one has to rely on books and schools completely to gain education and knowledge. There exists no field of education where the technology isn’t used, be it medical or civil. One can gain any kind of knowledge of any kind of field from use of electronic devices. Virtual learning is replacing classroom teachings in majority of the schools and institutes. Smart classes, video classes, online-offline videos, web classrooms and many more services are available because of computer. Computer assisted education is an easy way to learn and grasp contents. We can make attractive and appealing presentations to explain topics.

With computer assisted learning we can learn anytime and also multiple times. We can view the videos, the recorded tutored session’s endless times and anywhere. Computer education has not only simplified the world of education but also added value to it. Because of computer aided education, the process of learning has become interesting. Computer assisted education has made students independent and reduced dependencies on teachers and physical teaching. Interactive videos and presentations keep students interest’s intact.

Moreover, computer aided training has enhanced not only secondary education but also training processes of job and internships. It has simplified the training process and helped in cutting the cost.

We can enumerable advantages of computer assisted education. Some of them are-

- Simplified and interactive way of attaining knowledge
- Motivates student to learn
- Makes training process simplified
- Combines text, audios, videos in an appealing way
- Assists teacher in teaching process
- Develops student’s intelligence
• Enhances efficiency of education system

Computer assisted education doesn’t serve as a substitute to teacher but a complementary source of teaching. The main teacher teaches the subject using computer and devices making education and learning an interactive and flexible process.

For instance, in today’s are of pandemic where whole world is locked down, it is very important to note that student’s education is not a full stop. Many computer applications like ZOOM, MICROSOFT TEAMS etc are there assisting the education sector of schools and universities. They have not substituted any teacher rather have enabled a platform where teachers can virtually create a live classroom with all the students live at one place and teach them. They offer many features like screen sharing, raising hand etc for better and enhanced version of teaching.

Also, many recorded videos have been uploaded by professors to explain important subjects. One can easily witness the growth of online courses which offer students or anyone eager to learn the platform to learn while sitting at home and attain a degree.
So it can be clearly highlighted that there is a success of computer assisted education.

This pandemic started from China and the lockdown was first observed there. Amidst lockdown, education should not suffer. Chinese government used Ten cent classrooms which made availability of education online. This is observed as the “largest online movement” in history of education where in approximately 7,30,000 students took online classes in Wuhan.

Many countries developed their own online education platform. Singapore developed “Lark” as their portal. Byju Raveendran, the founder of Byju’s announced to give a free access to its learning app. After this announcement, the company has experienced a 60% surge in users having access to attractive and interactive videos.

There are many methods of computer assisted education, for instance- smart classes, recorded videos, power point presentations, zoom classes, games, online courses.

➢ **SMART CLASSES**

Putting smart classes into use, information becomes attractive and interactive. The teaching is done with the use of photographs, maps, audios-videos, graphics and flowcharts. Also, it has been observed that this helps students in grasping topics easily and memorize for a long time.
According to a Gallup survey, after introducing smart technology in schools & colleges, students’ engagement rate has improved by 55%. Reports say that rate of adapting of these smart classes has gone to 70% which consists of both public and private class rooms. Moreover, the issue of sustainability and green environment has been catered well with this new technology. Smart classes promote go green initiative with decreasing paperwork and also help in time management of both teachers and students.

➢ ZOOM

In this pandemic situation which is creating havoc in the whole world, where not only economies are suffering but also the education sector. An application like, Zoom was the need of the hour. Zoom allows a creation of virtual classroom which around 100 people can join and facilitates continuous learning. Education and learning know no boundaries and that is why computer assisted technologies are successful.
In the time where competition is increasing day by day, world boundaries are shrinking and people are having throat cut competition, it gets very important for people to keep their knowledge updated. Such opportunities are provided by various websites like courser, Alison, internshala, khan academy, udemy, edX etc.

Advantages-

1. Flexible schedule
2. Not time limited
3. Self discipline
4. Wide range of choices of courses
5. Career advancement
6. Knowledge updation
REVIEW THE LITERATURE

Researchers have conducted various experiments to find the effects of using computer in field of education be it reading skills, in literature or training processes. Learning and technology have always been walking together but in this digitalized world, technology and teaching have joined hands. Many institutes and teachers have started using computer technologies for teaching students with the use of technical innovations such as videos, audios, web classes, smart classes. They have substituted the long hour boring lectures on blackboards with easy and attractive presentations and videos on computers. Computer based learning has influenced student engagement within higher education settings. Such education requires specific hardware, software, some processing features on computer or its devices.

I have started my literature review by doing a research and after studying many articles usually those printed in past 5 years. The main 5 technologies that are the outcome of the search are –

- Web conferencing
- Zoom call
- Online classes
- Online courses
- Blogs
- Wikipedia
- Social networking sites
- Digital games

Computers are bridging the gaps that were left unfilled by the traditional method of education. It is very promising method of education and seems to do work which cannot be done with the traditional method of learning. It serves as an educational environment where in the teacher creates the learning environment, identifies the student’s abilities and capabilities, performs the activities of teaching, practicing, repeating and personalization according to student’s capabilities.

SCRIM SHAW PETER (2004)

He reviewed literature on “Enabling teacher to make successful use of Information Communication Technologies” with a perspective to locate the factors which serves as major contributors in enabling and motivating the use of ICT by teachers.

He conducted the survey online and 6 visitors were invited to do research on Becta research website and list the factors of integrating ICT in their teaching. Teachers had to make drastic shift in the way of their changing.
Clarify the problem

Many people think computer-assisted education replaces teacher but it is not what it seems like. It is a method which assists teachers in teaching and is used by many institutions to make students understand easily as it makes the teaching clear, easy and attractive. Not only teachers find it easy to teach with computers like using videos but students also find it feasible and practical to learn.

Nowadays this is the most commonly used method by institutions for teaching and imparting education. They use computer for various purposes like-

- smart classes
- Live lectures
- Online courses
- Internet searches
- Games
- Tests
- Listening practices

Advantages of Computer assisted education are-

- It helps the students to see their daily progress
- It helps the students to break down the complex topics into smaller parts so that they can understand easily
- It is very interesting and students find it engaging
- It caters to the individual
- It promotes active interaction and student can choose the language
Research Methodology

Objectives:

In this study we aim to determine how computer assisted teaching affects students in computer lessons, and also the attitudes of students using computer.

1. Is there any difference between the success of students who take computer courses with computer assisted teaching method and whose success is at application stage of cognitive domain, and the success of students who take computer courses with computer based teaching method and whose success is at application stage of cognitive domain?

2. Is there any difference between computer using attitudes of the students who take computer course with computer assisted teaching method and the students who take computer course with computer based teaching method?

3. How computer assisted education have succeeded and flourished in the times of lockdown and world deadly pandemic?

4. How successful computer assisted education has been in times like today?

Method of research

It is a DESCRIPTIVE research. A descriptive research is a research method that describes the characteristics of the population or phenomenon that is being studied. In this paper, we have analyzed the features and factors leading to the success of computer assisted education. How computer has evolved and enhanced the world of education and simplified learning process.

We have used secondary data to write this research paper. Secondary data implies an already existing data which includes research material published in research reports and similar documents. In this research paper we have huge no. of sample because we are studying about the whole economy so this method would be ideal for us.
Limitations:

- Research is valid only for urban people as rural areas are somehow still deprived of the technology
- Computer-assisted education requires high and efficient technology
- Research revolves around collected information
ANALYSIS

It has been analyzed that computer assisted education doesn’t mean eliminating teachers; it refers to use of computers and technologies by teachers for teaching the students. Computer and its applications aren’t restricted to one field of education but are open to all areas of education from science to medical. This has been a successful advancement in the education sector and a shining technological upgradation. Virtual class rooms can be created anywhere any time with various features like screen sharing, smart classes are there and also many games can be played with computer.

New applications like Zoom, Microsoft teams have enabled success of computer assisted education. They have raised the level of education sector. They assist teachers and make learning interactive, viable and attractive.

“We use many online tools like YouTube, Google Classroom and others. The students understand the importance of continuing education. We are getting about 70 per cent online attendance and going forward, we expect it to reach the same Attendance levels as we get during offline lectures,” said Dr. Anjum Padyal, Assistant Professor, Department of Physical Education and Sports Sciences, Deshbandhu College, Delhi University.
“Post COVID-19, following the government’s 40-day lockdown, there has been a surge in online education by schools and colleges across the country. Such an exercise requires the availability of high bandwidth and the telecom industry is fully prepared with 99.9 per cent network capacity. Telecom companies have taken appropriate measures to meet the surge in traffic due to online education and other online activities,” said Rajang S Mathews, Director General, and Cellular Operators Association of India (COAI).
FINDINGS

There has been significant increase in the use of computer and its applications in the area of education. Schools, colleges have started making their classes' smart classes and installed video and presentations system. They use videos to teach students and make the session interactive and easy.

They ask students to enroll themselves in online courses. There has been a remarkable increase in standards of education and innovation in past years. Teaching institutes have started to adopt new teaching ways including intelligent boards, projectors and smart books etc.

- About 63 percent of K–12 teachers use technology in the classroom daily.
- Phoenix College of Education announced that classroom technology consumption has increased from 55% in 2016.
- About 86% of educators told that they use laptops in classrooms
- 58% teachers use educational applications,
- 21% uses 3D printers and
- 41% use social media.
The rise of online education -

Internet Penetration Rates by Geographic Region, December 31, 2017

- North America: 95%
- Europe: 85.2%
- Australia/Oceania: 68.9%
- Latin America/Caribbean: 67%
- Middle East: 64.5%
- World (Average): 54.4%
- Asia: 48.1%
- Africa: 35.2%

Source: Internetworldstats.com

More than 4 out of 5 students agree digital learning technology can...

- 84% Improve their education
- 81% Save time
- 81% Boost grades

CONCLUSION

According to our research, the results states that computer assisted education is the most efficient method of teaching and is found to be significant as it increases the interest of students and enhances their motivation level. There are number of advantages we can have through the method but the bitter truth is that it is expensive in nature and people living in rural areas find it difficult to access and understand the advanced technology. The result shows that the computer assisted education methods and materials have enormous positive effects on the academic performance of students if technology and facility are put to use wisely.

There has been a beginning of new era in the field of education, “EDUCATION 4.0” where the whole education world lies in the technological advancements of computer. Where the whole world’s economy is suffering and like all other sectors, education sector has been at the edge, it is only computer assisted education that is saving the field of education across the globe. Whole world is relying on the facilities of computer and its assisted applications to educate themselves and work. Education has no boundaries and computer aids in the process of overcoming the hurdles that comes in the way. In pandemic situation like this, it is only because of facilities of computer assisted technologies that education is reaching to large masses.
The conclusion is evident that the computer assisted education program is most used method by institutional bodies nowadays to increase the ability of their students, after the research we get to know that 90% of the students agree to study through the computer-assisted programmes.

**RECOMMENDATIONS**

Recommendations would be-

- ✓ There should be proper disciplined method of computer assisted education
- ✓ It should be done in an effective manner
- ✓ Children should spend a limited time with the technology
- ✓ Technology should be used until it serves its purpose and not harms
- ✓ In the time of situations like these- technology like this should be made available to rural areas
- ✓ Upgradation of technology should be there
- ✓ New ways of education shouldn’t temper with education

**REFERENCES**