

Computer-Assisted Education

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ABSTRACT

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The purpose of this review paper is to explore and learn boundlessly about computer-assisted education, and its impact on students and their academic success. Computer-assisted learning provides academics with various teaching information and multimedia platforms for easy learning of students. It interprets the innovation of computer-assisted education and its success in today's era. Computer-aided education signifies the integrated approach of the computer and its devices. Nevertheless, it does not mean online learning will eventually replace traditional education and teachers, rather teachers using computer-based platforms, and their applications to teaching, like smart classes, videos, and web tutoring with improved resources and reduced teacher workloads. By which, students can arrive, grasp, and engage themselves at their own pace in a co-relational environment. Moreover, in the situation of a pandemic like this, we all are choosing computer-assisted education. Therefore, without computer-facilitated education today, it would have been merely impossible for us to study, and attain education. The world has widely opened and accepted the new technology of computer-assisted education. This paper is done to distinguish the success of computer-assisted education.

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I. INTRODUCTION

Education is a vital issue in one's life. A correct and smart education is important for all people. It's the method of achieving correct data, values, skills, and helpful habits. One of the foremost necessary blessings of education is that it improves personal lives and helps society to run effortlessly. It's the key to change our personal growth in an exceedingly substantial thanks to the success and possess several opportunities in life. Moreover, an informed person

encompasses a larger probability to vary the planet together with his data and concepts instead of associate degree uneducated man in society. Education is the backbone of society. The government has accomplished and is functioning in empowering education and its areas in several little villages in our country. Earlier, education utterly relied on books and magazines, but with the dynamic world; the education system is additionally bit by bit changed. Consequently, we tend to area unit currently shifting to computers,

digital, and virtual platforms for gaining the utmost data, skills, and data.

Computers have expanded human potentials, practically in every possible arena. Computers and multimedia technology has considerably reached a level of refinement that allows academics to design and create programs themselves that allow students to adapt the programs to their individual learning needs. Also, computers ensure more accuracy and make student's lives easier and more comfortable. And computers play a huge role in the lives of students in the modern world. It is the outcome of many consecutive inventions by several scientists. We can get an idea of how huge of a role this is if we examine some things in the modern world that we rely on, and mostly take for granted.

Technology allows students to help each other and work together for a better understanding of the material. In that sense, they will sometimes function as the (supervised) teachers — and learning through instruction is thought to be highly effective for mastering a subject and solving problems.

Computer-assisted education is one of the foremost precious gifts of today's digital era. With only one click, we are able to have a compilation of data. It refers to gaining education through electronic devices and digital products. Now that we have got an online learning system nobody needs to consider books and schools completely to achieve education and knowledge. There exists no field of education where the technology isn't used, be it medical, civil, or any kind of field. For instance, Computers assisted education is also used for the medical and clinical field for better understanding via visualization of the human physique, which will gradually lead to a better diagnosing pattern and makes health care faster and more efficient.

One can gain any reasonable knowledge of any quiet field from the utilization of electronic devices and intermediate platforms. Virtual learning is replacing classroom teachings within the majority of the faculties, students, and institutes. Smart classes, video classes, online-offline videos, web classrooms, and lots of more services are available due to computers. Computer-assisted education is a simple way of learning and grasping the content. We are able to make attractive and appealing presentations to clarify topics. With computer-assisted learning, we will learn anytime and also multiple times. We are able to view the videos, the recorded tutored session's endless times, and anywhere. Computer education has not only simplified the system of education but also added value thereto. Due to computer-aided education, the method of learning has become interesting.

Computer-assisted education has created students freelance. Interactive videos and presentations keep student's interests intact. Moreover, computer-aided training has enhanced not only educational activity but also the training processes of jobs and internships. It's simplified the training process and helped in cutting the price.

What is computer assisted education?

Computer-assisted education is often outlined as a scientific use of computers, digital products, multimedia systems, and package applications as a central feature to show ideas or skills for the great development of the scholars. By victimization the materials that area unit hold on in DVDs, mobile phones, and alternative web-based resources, the training expertise becomes additional enticing and dynamic, that offers the scholars pleasant ways to showcase their listening and learning skills. It's Associate in Nursing integrative technology that describes an educational setting wherever a bug is employed to assist the user in learning a particular

subject. It refers to Associate in Nursing's overall integrated approach of tutorial ways. Any use of computers to help or support the education or coaching of a private. At any purpose, computer aid learning provides quicker or slower routes through the fabric for folks of assorted aptitudes to match their pace and will maintain a progressive record for the trainers.

Computer-assisted learning is an associate in nursing economical means of fast data within the teaching field. Computer-assisted learning is one in every of many terms accustomed categorical totally different applications of computers. Consequently, other terms embrace computer-aided (or -assisted) instruction (CAI), computer-based learning (CBL), and computer-managed instruction (CMI).

There are many different methods of computer-assisted education

For instance:

- Smart classes
- Recorded videos
- Power Point Presentations
- Zoom classes
- Online courses
- Web Conferences
- Blogs
- Wikipedia
- Social networking sites
- Digital games
- Learning apps like byju's, unacadamy, etc.

In a pandemic scenario like this most of the faculties and colleges preferring online platforms. Therefore, several computer applications like- Zoom, Microsoft groups, Google meet, etc area unit helping the faculties, and universities within the tutorial sector. They enabled a platform wherever lecturers

will produce a virtual room to show, wherever all the scholars WHO board totally different places will attend the category. They provide several options like- screen sharing, whiteboard, hand raising, more for a more robust and captivating version of teaching.

Pros of computer-assisted education

- It caters to the personal needs of an individual.
- Students can choose the language and can always participate in active interactions.
- Students can see their daily progress so that they can evaluate their work.
- Students find it very interesting and engaging.
- Students can find complex topics break down into small parts.

Cons of computer-assisted education

- Sometimes it can be expensive for students.
- Sometimes teachers can find it is difficult to implement.
- Sometimes activities of it don't always fit the goals of the teacher.
- Students can sometimes habituate to isolation and can face difficulty in social interaction.

In the end, it's up to the faculty to decide whether Computer Assisted Learning is useful and right for their lessons or not. As long as the pros and cons are assessed fairly, the use of computers assisted learning in the classroom can be a great way to take advantage of new technology and build up the language learning experiences among the students.

II. ANALYSIS

It has been analyzed there are many ways of computer-assisted education. By that students will perceive and grasp any topic at their own pace, may valuate themselves for his or her personal growth and

capabilities. And it doesn't mean or result at work lecturers; it implies teachers exploitation computers and technologies for teaching the scholars. Also, computers and their applications are wide hospitable in all areas of education from science to medication, arts, and to plenty of various fields. The education sector has been beneath a thriving advancement and is shining with upgrading technology. Scholars perceive the importance of continuous education. Lecturers will produce virtual lecture rooms anyplace at any time with numerous options like screen sharing, large space for notes and assignments, files, and posts; additionally several other options for study and work. And many computer applications like Zoom, Microsoft groups, Google meet, etc have enabled the success of computer-assisted education. The extent of the education sector has raised and that they assist lecturers and create learning interactive, flexible, and fascinating for students.

III.RECOMMENDATION

- Kids ought to pay restricted time with technology.
- It ought to be worn out efficient manner.
- Technology ought to be used till it serves its purpose and not harms.
- Technology like this could be created available to rural areas
- Upgrading of technology ought to be there.
- Simulation and virtualization.
- Intelligent computer-assisted learning systems — associate intelligent computer-assisted learning system that is on the far side the scope of this paper, can have several blessings compared to standard ones. They're direct results of AI ways.
- There ought to be a correctly disciplined technique of computer-assisted education.

IV.CONCLUSION

The whole world is counting on the facilities provided by computers and their assisted applications to educate themselves and work. Education is boundary-less, where the computer aids in the process of overcoming the difficulties that come on the way.

The use of computer-assisted learning enhances modern education and provides learning opportunities that cannot be taught by traditional methods. It provides an exciting opportunity to support traditional methods and to develop innovative approaches. In the future, we will see more advanced software with virtual education that can communicate and interact with students in a very realistic way. However, for academics, the challenge is not only to integrate computer-assisted education into the curriculum but also to evaluate its impact on learning in the real world.

According to these results, there are some disadvantages besides the advantages that the study unconcealed. For instance, the team spirit between students may weaken due to individual works. This and similar disadvantages are awaiting researchers as a subject of another study.

Nevertheless, in a pandemic situation like this, only because of the facilities of computer-assisted technologies, education is reaching huge heaps.

The conclusion is obvious that the computer-assisted education program is the most used method by institutional bodies nowadays to increase the ability of their students.

V. REFERENCES

- [1]. Ramazan Basturk, The Effectiveness of Computer-Assisted Instruction in Teaching

- Introductory Statistics; Educational Technology & Society, 8 (2), 170-178. 2005.
- [2]. B. Arslan, (2003) "Computer-assisted Education Secondary Students and the feedback from CAE of teachers which have had an educative role in this process", The Turkish Online Journal of Educational Technology, Vol. 2, No. 4, pp. 67-75.
- [3]. Inesha Aggarwal, Gopal Aggarwal, "SUCCESS OF COMPUTER ASSISTED EDUCATION", Volume 8, Issue 6, June 2020, Online: ISSN 2320-9186.
- [4]. H. Ogut, A. A. Altun, S. A. Sulak & H. E. Kocer, (2004) "Computer-assisted, Internet Access, E-Learning with Interactive Training Cd", The Turkish Online Journal of Educational Technology, Vol. 3, No 1, pp. 67-74.
- [5]. F. Odabasi, (2006) "Computer-assisted education", Unit 8, Anadolu University, Open Education Faculty Press, Vol. 135, Eskisehir.
- [6]. K. Cilenti, (1995) "Educational Technology and Importance", Kadioglu Printing, Ankara.
- [7]. C. Alkan, D. Deryakulu & N. Simsek, (1995) "Introduction to Educational Technology: Discipline, Process, Product", Onder Printing, Ankara.
- [8]. A.H.K. Yuen (2006) "Learning to program through interactive simulation", Educational Media International, Vol. 43, No. 3, pp. 251-268.
- [9]. B. Akkoyunlu, (1998) "The place and role of the teacher in the Curriculum Programs of Computers", Hacettepe University Press, Ankara.
- [10]. The Computer Assisted Education and its Effects on the Academic Success of Students in the Lighting Technique and Indoor Installation Project Course, Article · January 2012.
- [11]. Mahmood, M.K (2004). A Comparison of Traditional Method and Computer Assisted Instruction on Students Achievement in General Science. Ph.D., thesis (unpublished) University Of The Punjab, Lahore.
- [12]. Exploring the conditions of success in e-libraries in the higher education context through the lens of the social learning theory, Volume 57, Issue 4, June 2020, 103208.
- [13]. Some Effects of Student Personality on Success with Computer-Assisted Instruction, Jeffrey L. Hoffman, Keith Waters, Educational Technology Volume 22, Number 3, March 1982 ISSN 0013-1962.
- [14]. Computer-assisted education apparatus and method for adaptively determining presentation pattern of teaching materials, O Iemoto, S Endo - US Patent 7,110,989, 2006.
- [15]. Effects of a computer-assisted formative assessment intervention based on multiple-tier diagnostic items and different feedback types, U Maier, N Wolf , Computers & Education, 2016.
- [16]. Kumar, Dr & Simaiya, Sarita & Maheshwari, Shikha & Manhar, Advin & Kumar, Santosh & Chitkara,. (2020). Cloud Performance Evaluation: Hybrid Load Balancing Model Based on Modified Particle Swarm Optimization and Improved Metaheuristic Firefly Algorithms. Engineering Science and Technology an International Journal. 12315-12331.

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