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Computer-Assisted-Education

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ABSTRACT

The objective of this analysis is to extensively explore and comprehend computer-assisted education, along with its effects on students and their academic accomplishments. Computer-assisted learning offers various teaching materials and multimedia platforms to facilitate easy learning for students. It highlights the innovation of computer-assisted education and its achievements in the present era. The term computer-aided education signifies the amalgamation of computers and their devices. However, it does not imply that online learning will replace traditional education and teacher's altogether. Rather, teachers are using computer-based platforms and applications to teach, such as smart classes, videos, and web-based tutoring, with enhanced resources and reduced teacher workloads. This enables students to learn, understand, and participate at their own pace within a supportive environment. Computer-assisted learning has revolutionized the way students learn, not only in regular classrooms but also in language learning environments. Computer-assisted learning makes lessons more interactive and engaging, and can spark the interest of even the most reluctant learners. Computer lessons are usually tailored to each individual's progress, not on a predefined set of standards, thus providing a more personalized learning experience. Consequently, computer-facilitated education is essential for students to study and acquire knowledge in today's world. The world has widely embraced the new technology of computer-assisted education.

KEYWORDS: Visual Learning, Listening Practice, Tests, Games, Internet Searches, Online classes, Multimedia Platforms, Computer-Assisted-Education, Computer Facilitated Education.

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I. Introduction

Education is an essential aspect of life. It equips individuals with knowledge, values, skills, and habits that are beneficial to personal growth and societal development. A well-rounded education is vital to achieving success and opening doors to opportunities. Educated individuals have a greater chance of making a positive impact on the world with their ideas and knowledge.

The government has made significant efforts to empower education in small villages across the country. While traditional books and magazines were once the primary sources of education, technological advancements have led to a shift towards digital platforms. Computers have expanded human potential in numerous areas, and multimedia technology allows teachers to design programs that cater to individual learning needs. Furthermore, technology facilitates communication and collaboration among students, improving their understanding and problem-solving abilities.

Computer-assisted education is a valuable gift of the digital era. With one click, individuals can access a wealth of information on any subject. Virtual learning has become increasingly popular and is replacing traditional classroom teaching in many schools and institutes. Smart classes, video classes, and web classrooms are just a few examples of the many services available due to computers.

Computer-aided education has simplified the learning process and made it more interesting. Interactive videos and presentations keep students engaged, and computer-aided training has enhanced job training and internships. It has made students more independent and has cut costs associated with training.

In conclusion, education is essential to personal and societal growth. Technological advancements have transformed the way we learn and have made education more accessible and engaging. Computer-assisted education is an invaluable tool that has simplified the learning process and improved students' understanding of subjects.

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1.1what is computer assisted education?

The utilization of computers, digital tools, multimedia systems, and software applications to impart knowledge or skills to students is often referred to as computer-assisted education. This approach provides a more engaging and dynamic learning experience by incorporating materials stored in DVDs, mobile phones, and other web-based resources, allowing students to demonstrate their listening and learning skills. It is an integrative technology that encompasses various educational methods, where the computer is used to assist the user in learning a specific subject. Computer-assisted learning offers individuals of different abilities faster or slower routes through the material to match their pace and maintains a progressive record for the trainers. It is an efficient way of imparting knowledge in the teaching field and is referred to by various terms such as computer-aided instruction, computer-based learning, and computer-managed instruction.

There are many different methods of computer-assisted education For instance:

- Smart classes
- Recorded videos
- Power point presentations
- Zoom classes
- Online courses
- Web conferences
- Blog
- Wikipedia
- Social networking sites
- Digital games
- Learning apps like BYJU'S, UNACADEMY, etc.

In the pandemic scenario, many schools and universities have shifted to online platforms, and various computer applications such as Zoom, Microsoft Teams, and Google Meet are aiding the education sector. These applications provide a virtual classroom where teachers can conduct lectures and students from different locations can attend. These platforms offer several features such as screen sharing, whiteboard, hand raising, and more, to enhance the learning experience.

1.2Pros 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.

1.1 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 goal of the teacher.
- Students can sometime habituate to isolation and can face difficulty in social interaction.

Ultimately, the decision to incorporate computer-assisted learning into classroom instruction rests with the faculty. As long as the advantages and disadvantages are objectively evaluated, integrating computer-assisted learning can be a valuable approach to utilizing cutting-edge technology and enhancing language acquisition among students.

II. Analysis

The realm of computer-assisted education is diverse, offering students the flexibility to learn at their own pace and assess themselves for their personal growth and abilities. It does not imply a lack of physical lectures but rather the integration of technology into teaching practices. The application of computers extends across all disciplines of education, including science, medicine, the arts, and other fields. With continuous technological advancement, the education sector has been flourishing, and scholars understand the importance of ongoing education. Teachers can create virtual classrooms with a variety of features, including screen

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sharing, ample space for notes and assignments, file sharing, and other study tools. Computer applications such as Zoom, Microsoft Teams, and Google Meet have contributed to the success of computer-assisted education, making learning more interactive, flexible, and engaging for students, thus elevating the standard of education.

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.

The benefits of intelligent computer-assisted learning systems, which are a product of AI techniques and surpass the scope of this paper, are numerous compared to traditional methods. However, it is crucial to have a well-structured and disciplined approach to computer-assisted education for it to be effective.

IV. CONCLUSION

Computers and their associated applications have become essential for both education and work on a global scale. With computer assistance, learners can overcome obstacles in their education, which knows no bounds. The use of computer-assisted learning has revolutionized modern education by providing novel learning opportunities that cannot be taught through traditional methods. It also opens up exciting opportunities to develop innovative approaches while supporting traditional teaching methods. Advancements in software technology will bring about virtual education, where students can communicate and interact with a computer program realistically. However, academics must not only integrate computer-assisted education into their curricula but also evaluate its real-world impact on learning. Despite the advantages uncovered by studies, there are also disadvantages to consider, such as a weakening of team spirit among students due to individual work. Further research is necessary to explore such drawbacks. Nonetheless, computer-assisted technologies have become crucial in enabling education to continue on a massive scale during the pandemic. It is evident that computer-assisted education programs are now the most widely used teaching method employed by educational institutions to improve student abilities.

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.

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