



The Role Of Digital Media In Modern Education

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Abstract

Purpose of the article In today's rapidly developing world, digital media has become an integral part of our lives, transforming various fields, including education. With the advent of technology, traditional teaching methods are being revolutionized, creating new opportunities and challenges for teachers and students. It is transforming the traditional environment, offering new ways to engage students and enhance their learning experience. This article aims to explore the global perspective of the impact of digital media on education, highlighting its advantages, challenges, and the future of education in the digital age. These technologies enable students to actively participate in the learning process, develop critical thinking, collaboration, and creativity.

Key words: digital media, impact, knowledge, education, Digital media education, communication, content creation, community participation

Introduction.

The impact of digital media on education is undeniable, reshaping traditional teaching methods and transforming the learning experience for students worldwide, which refers to the student's ability to access, analyze, evaluate, and create media content in various forms.[1] This includes the use of multiple digital software applications, devices, and platforms as a means of learning. The integration of digital media into education has increased over time, competing with books as the primary means of communication and gradually replacing traditional teaching practices.[2] As we move into the digital age, it is critical for educators and students to embrace these technological advances and address the challenges they bring. By harnessing the power of digital media, we can create a future where learning is accessible, personalized, and globally connected, preparing students for success in an increasingly digital world. Technological advances, including the invention of the Internet in the late 20th



century, have made it possible to incorporate technology into education. In the early 1900s, overhead projectors were used as teaching aids alongside radio-broadcasted lessons.[3] The first use of computers in the classroom occurred in 1950, when a flight simulation program was used to train pilots at the Massachusetts Institute of Technology.[4] However, the use of computers was very limited. In 1964, researchers John Kemeny and Thomas Kurtz developed a new computer language called BASIC that was easier to learn and popularized time-sharing, allowing multiple students to use a computer at the same time.[4] By the 1980s, computers were gaining more interest in schools as companies began to mass-market devices.[3] Networking made it easier to connect computers into a single communication system, making them more efficient and cost-effective than earlier standalone machines, and led to their widespread use in schools.[4] By 1999, 99% of public school teachers in the United States reported having access to at least one computer in their school, and 84% had access to a computer in their classroom.[5] The invention of the World Wide Web in 1992 simplified Internet navigation and further attracted interest in educational institutions. Computers were initially incorporated into school curricula for tasks such as word processing, spreadsheet creation, and data organization. By the late 1990s, the Internet had become a research tool, acting as a major library resource.[4] The World Wide Web has also led to the development of learning management systems, which allow instructors to create online learning environments for content storage, student activities, discussions, and assignments.[6] Advances in digital compression and high-speed Internet have made video production and distribution more affordable and have facilitated the development of systems for recording lectures. These systems have often been integrated into learning management platforms, supporting the growth of fully online courses. [6] There are both positive and negative aspects of digital media in modern education. Digital media has had a significant impact on modern education, changing traditional teaching methods and offering new opportunities. However, it also comes with certain challenges.

Materials and Methods.

Advantages of digital media in education. Enhanced learning experience Multimedia elements (videos, animations, simulations) make learning more interesting and interactive. Gamification techniques help improve motivation and retention. Increasing accessibility Online learning platforms allow students to access educational content from anywhere. Digital resources such as e-books



and audio books make learning easier for students with disabilities. Personalized learning Artificial intelligence-based platforms provide a personalized learning experience based on student achievement. A flexible learning program helps students learn at their own pace.

Collaboration and global connectivity Social media and online forums allow for discussions and knowledge sharing outside the classroom. Virtual classrooms allow for collaboration between students and teachers in different locations. Developing skills for the digital age Digital tools improve students' technical and critical thinking skills. Learning management systems (LMS) teach students self-direction and time management. Cost-effective learning Online courses and e-books are typically much less expensive than traditional classroom learning. They reduce the costs associated with printing and physical resources.

The digital divide and accessibility issues are disadvantages of digital media in education, as not all students have access to high-speed internet and digital devices. Socioeconomic disparities create inequalities in digital learning opportunities. Distractions and reduced attention span Social media and digital entertainment can distract students from studying. Excessive use of digital content can lead to decreased attention span and concentration. Lack of face-to-face interaction. Online learning can reduce personal interaction and social development. Students are deprived of the opportunity to interact directly with teachers and peers. Cyber security and privacy concerns Students' personal information can be vulnerable to hacking and cyber threats. Online learning platforms can collect user data without proper security measures. Excessive screen time and health problems Prolonged exposure to screens can lead to eye strain, headaches, and poor posture. Lack of physical activity can lead to obesity and other health problems. Quality and reliability of online content Not all digital learning materials are accurate or reliable. Students may have difficulty distinguishing between reliable and false information.

Digital learning is not a simple addition to the traditional classroom; it is a complete transformation. Here's a look at how this evolution is changing the educational landscape:

Results and Discussions.

Interactive Displays. The era of chalk and whiteboards is over. Today's classrooms are equipped with interactive flat panels and touch screens, ushering in a new era of collaboration and collaboration. Teachers can transform passive



learning into interactive communication and seamlessly present multimedia content and web resources.

Digital Textbooks. The heavy burden of printed textbooks is gradually becoming a thing of the past. Digital textbooks, or e-books, have emerged as a cost-effective, interactive alternative. They don't just replicate printed content; they connect with multimedia resources to enhance understanding and engagement.

Location Independence. Physical boundaries no longer define the classroom. Cloud-based classrooms allow students to participate from anywhere in the world. Videoconferencing platforms eliminate geographical constraints, allowing remote learners to easily join the learning journey.

Dynamic Content. In the digital realm, content never stops. Teachers can instantly update materials to reflect the latest developments. Students can discuss current news and current events in real time, developing critical thinking and relevance in learning.

Student-led Learning. Digital learning empowers students to become active participants in their learning. They have the tools to find answers on their own using digital resources, transforming teachers into guides who facilitate their self-directed learning journeys.

The world we live in has changed dramatically in the last 10 years, as we have entered the "digital world", using electronic media to the maximum extent in our daily lives. In fact, this phenomenon has a huge impact on our personal, educational and even societal behaviour. For those who are unaware of digital media or do not want to participate in it, it is too late to be part of the digitalization! Maybe they are digital lazy? There is still time to act and embrace the digital trend, especially in terms of knowledge and education in the family and society. There are many opportunities and challenges to reach the consumer in a modern way. Knowledge sharing has increased since the Stone Age. You can share your knowledge with others and increase your knowledge faster by using the latest digital devices. In the future, it may be difficult or even impossible to escape the digital world. The number of online users will grow very rapidly with the next generations. Business processes, communication systems and information systems have been digitized. The same process is happening with knowledge and education. Yes, it is up to the individual to understand and implement digitization in knowledge and education. The power and influence of



"artificial intelligence" in the way we transform information has increased dramatically and is changing our habits.

In the future, it may be difficult or even impossible to escape the digital world. The number of online users will grow very rapidly with the next generations. Communication systems and information systems have been digitized. The same process is happening in working with knowledge and education. Yes, understanding and implementing digitization in knowledge and education depends on the person himself. Along with all the advantages of digitization, it will also be important to take into account the source of information and the truth of the information. In the future, it will not be possible to stay "offline". Even if we leave our phone at home, there is someone else who can get information about us. Many digital systems are being used in current classes, which allows students and teachers to study subjects in greater depth.

Conclusion

Digital media is transforming modern education by enhancing the learning experience, improving accessibility, and increasing engagement. It is also important to note that, in addition to improving the learning experience, it has also fundamentally changed the way students and teachers approach education. The fact that teachers prepare for lessons, provide more information to students during the lesson, and work with each student individually has created demands for new ways of learning and a deeper understanding of the content of the acquired knowledge, which is becoming increasingly modern and focuses on the use of digital technologies in their lessons.

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