International Journal of Humanities Social Science and Management (IJHSSM)
Volume 3, Issue 2, Mar.-Apr. 2023, pp: 201-202 www.ijhssm.org

How Important Is Technology in Education? Benefits, Challenges, and Impact on Students

Komal Arora

Date of Submission: 07-03-2023 Date of Acceptance: 19-03-2023

Technology is human knowledge which involves tools, materials and systems. The application of technology results in arti-facts or products.No one can escape the absolute necessity of technology in our daily lives. Each of us is so heavily dependent on technology that we cannot do anything easily without it.

Technology is important because it is used in all areas of life. When you contemplate your daily routine and count all the technology gadgets you consume in just one day, you will realize how important technology is when you use your mobile, watch TV, drive a car, and use a computer or any electrical machine.

Importance of technology in Education—

The COVID-19 pandemic demonstrated why online education should be a vital part of teaching and learning. By integrating technology into existing curricula, as opposed to using it solely as a crisis-management tool, teachers can harness online learning as a powerful educational tool.The effective use of digital learning tools in classrooms can increase student engagement, help teachers improve their lesson plans, and facilitate personalized learning. It also helps students build essential 21st-century skills.

Virtual classrooms, video, augmented reality (AR), robots, and other technology tools can not only make class more lively, they can also create more inclusive learning environments that foster collaboration and inquisitiveness and enable teachers to collect data on student performance.

Still, it's important to note that technology is a tool used in education and not an end in itself. The promise of educational technology lies in what educators do with it and how it is used to best support their students' needs.

Advantages of technology in education:

Provides a better interactive experience during the learning and teaching process

With the introduction of mobile phones, tablets and computers, students are now able to do something they should have been able to do long ago – to learn actively and productively. For the first time, students can access a subject/teaching unit with enthusiasm thanks to applications, videos, simulations and digital books that make the learning process much more engaging. Moreover, having the opportunity to dig deeper into an area that interests them allows them to potentially recognize their interests and talents, and maybe even their future profession.

Provides access to an unlimited amount of current information and data from a variety of sources

In addition to the fact that students approach learning with more enthusiasm and productivity, they also have the opportunity to access the most current topics and research, which is something their ancestors could only dream about. Instead of going from library to library, dragging a pile of books with them, they are just a few clicks and well-defined queries away from accessing information that can give them additional insight into the topics they are covering at school. So, this practice not only enables students to have a modern education, but it also teaches them how to approach the search for information and read complex professional literature.

Teaches them digital literacy

We all know that young people cannot acquire the level of skill demanded by today's corporate world in computer science classes. By implementing technology as an integral part of education, students are given the opportunity to keep up with learning trends and acquire technological/digital skills that are highly sought after in the 21st century. This form of learning is

most helpful for students who don't have access to modern technology at home, which could also potentially reduce the social gap between digitally literate and illiterate people.

Reduces educational costs

With the introduction of technology in education, resources have become more accessible, which resulted in declining tuition fees, the need for books and their price, as well as the reduced need for school supplies. The introduction of e-books has made things easier for low-income families, and helped students to approach learning on equal terms with their peers, without parental pressure for high performance arising from large investments into their child's education.

In addition, another positive side-effect of using e-books in education is the fact that they indirectly contribute to the reduction of deforestation, which is one of the major environmental problems.

Provides better insight into student performance thanks to metrics

In the past, teachers had to spend considerable time evaluating the overall academic performance of each student, which proved to be very impractical, especially in large classes with over 20 students..

However, with the introduction of digital technologies and the Internet in the classrooms, a teachers' job of analyzing student performance and providing guidelines and advice has become much easier, which is a win-win situation both for teachers and students. Specifically, thanks to platforms that collect data on student performance in class, tests, and assignments, teachers have clear insight into the areas students struggle with, or excel at. Moreover, teachers are now able to modify lessons based on insights into the performance of individual students, or class as a whole.

They can choose between real-time learning or learning at their own pace

Technology in education has allowed students to gain control over their learning, but it also provided flexibility to teachers in transferring knowledge to students. Namely, this practice is only possible in schools that support hybrid (blended) learning, i.e. a combination of synchronous real-time learning, and asynchronous learning where students can listen to a lecture when they choose.

Listening to a teacher giving a lesson in real time provides students with a stronger sense of belonging, and allows them to socialize with their peers, same as face-to-face interaction with the teacher. On the other hand, more independent students who are confident in their own time management and commitment management skills can learn whenever they feel like it.

Technology can promote innovative teaching techniques

Education technology changes the way we access information, and also how we're taught that information. The instructor becomes less of a 'sage on a stage' and more of a 'guide on the side.' From accessing real-world case studies online to watching video-recorded lectures to listening to podcasts, technology opens up the possibility for teaching innovation (including collaborative group work and flipped and hybrid classrooms).

It Helps Learners Stay Up To Date With New Technological Advancements

Students who are able to stay up to date with the latest technological advancements will be able to improve their knowledge of different fields and develop new skills that they can use in the future. These students will also be more likely to find a job because they will have a very good understanding of the latest trends in various fields and be able to help companies become more efficient by knowing how new technologies can be used for various purposes.

I believe in a balanced approach to education: fun, but informative; technological, but hands-on; modern, yet traditional. Striking the perfect balance.
.