

---

## **SOCIAL IMPACT OF TECHNOLOGY –DRIVEN EDUCATION**

---

**R. Sowmiya, N. Dhivya**

III B.A. English

---

### **Abstract:**

Technology-driven education is the utilization of machines, facilities, and resources such as computers, projectors and interactive whiteboard in the teaching and learning and learning process to ensure that the instructional objectives are achieved. Technology-driven education which the author referred to as technology in education is the utilization of modern equipment and tools to enhance learning and interactivity of students. The author further posited that technology in education makes learning more interactive as well as ensure that transfer of knowledge becomes very easy, convenient and effective. Technology in education supports students or young people to develop deep subject knowledge and understanding. Therefore the social impact of technology-driven education enables the teaching and learning process to be interesting as well as encourages students' participation in lessons. According to that, technology-driven education makes the education process active, student-driven, not time-dependent, individual contribution is measured because progress is accessed throughout and all students fully participate. The authors further posited that technology-driven education induces scientific, economic, technological, information and multicultural literacy and global awareness as well as promoting inventive thinking which induces the following;

- ✓ Adaptability & managing complexity.
- ✓ Curiosity, creativity, and risk-taking.
- ✓ High- order thinking and sound reasoning.
- ✓ Develops effective communication which leads to teaming, collaboration and interpersonal skills.
- ✓ Leads to high productivity which given the ability to plan and manage results.
- ✓ It also gives you a sense of using real-world tools with an effective, relevant, and high-quality result.
- ✓

**Keywords:** teaching and learning, technology-driven education, multicultural literacy, .etc

---

#### Introduction:

The twenty-first-century era is often regarded as the technology era which the people within are referred to as digital natives. Technology is seen as a basis of educational development of any nation as no educational system can rise above her technological advancement in today's scenario. Technology refers to the practical application of principles of science in solving various problems involving educational problems. Education refers to the processes involved in teaching and learning which brings positive change in the behavior of learners. Technology has brought unprecedented changes to the education system globally. The change that technology brought is revolutionary, not evolutionary and citizens. The use of technology no doubt improved the education- delivery effectiveness and process efficiency. Therefore, the twenty-first-century education system is said to be technology-driven because technologies are included in curriculum design, teaching and learning process. The increasing access to smart phones, development of technology-based learning applications, developments in artificial intelligence application and some of the factors driving the technology in education. Although technology-driven education aims to attain positive benefits, there are still some negative effects of technology-driven education. Hence the needs to assess the social impacts of technology-based education which is the effects that technology-driven education has on the wellbeing of the community and the nation.

#### Technology- Driven Education:

Technology-driven education is the utilization of machines, facilities, and resources such as computers, projectors and interactive whiteboard in the teaching and learning and learning process to ensure that the instructional objectives are achieved. Technology-driven education which the author referred to as technology in education is the utilization of modern equipment and tools to enhance learning and interactivity of students. The author further posited that technology in education makes learning more interactive as well as ensure that transfer of knowledge becomes very easy, convenient and effective. Technology in education supports students or young people to develop deep subject knowledge and understanding.

Technology-driven education enables the teaching and learning process to be interesting as well as encourages students' participation in lessons. According to that, technology-driven education makes the education process active, student-driven, not time-dependent, individual contribution is measured because progress is accessed throughout and all students fully participate. The authors further posited that technology-driven education induces scientific, economic, technological, information and multicultural literacy and global awareness as well as promoting inventive thinking which induces the following;

- ✓ Adaptability & managing complexity.
- ✓ Curiosity, creativity, and risk-taking.
- ✓ High- order thinking and sound reasoning.
- ✓ Develops effective communication which leads to teaming, collaboration and interpersonal skills.
- ✓ Leads to high productivity which given the ability to plan and manage results.
- ✓ It also gives you a sense of using real-world tools with effective, relevant, and high-quality results.

#### Resources Utilized In Technology- Driven Education:

The reliance on technology in education is inevitable in schools today because of its numerous benefits. Teachers and students make use of technological resources such as the following;

#### Internet:

The internet is a global system of interconnected computer network that links devices such as computers and phones worldwide. The internet is very important in technology-driven education. The internet is needed for students and teachers to browse current information on course content, exchange mails, as well as enables students to watch youtube videos on various academic concepts to aid learning. Today, the internet is almost everywhere and is a major factor in contributing to the world being a global village.

#### Projectors:

Today projectors are a very common feature of modern classrooms. It makes learning interesting, interactive and worthwhile. Projectors have replaced the traditional method of teaching which involves the teacher giving notes to the students which require the students to just memorize and forget after exams. With projectors, pictures and videos of important concepts can be seen on the screen which appeals to the senses of sight and sound.

#### Online Courses:

Technology has led to the concept of electronic learning. Today, people can take courses without having to attend a physical classroom. This has helped to eradicate the issue of time and distance restrictions to learning because people can now take courses at their convenience. Furthermore, online degrees now have become a very common phenomenon and people wish to take up online courses for their learning and certifications. The author further posited that top institutions offer amazing online programs with the use of various applications and the internet. This makes learning very flexible especially for students who have full-time employment and are very busy.

---

Furthermore, technology-driven education can be utilized in numerous ways. Some of these ways as posited by the author are the utilization of tablets in place of textbooks, instant messaging, computers in the classroom and virtual gaming.

#### Tablet In Place Of Textbooks:

These are several schools that have started moving to tablets instead of textbooks in the classroom and this led to a significant reduction in the cost for the books. This is because many textbooks can be stored in a tablet. This gives every student the ability to go on the internet which they may not be able to do at home, easily carry around their textbooks and study wherever they are. Students can see their homework assignments, complete work, read their textbooks and much more right at the touch of their finger. These days, apps are designed which are educational and can be installed in tablets. For instance, many students have dictionaries installed in their phones.

#### Instant Messaging and Texting:

Although texting using applications like Face book and Whats App may be frowned upon during class, there is a major benefit that it can provide for the learning experience. It can allow the student the ability to communicate directly with teachers as well as other students. This can help them to get a better understanding of the subject matter. They can even ask questions that they are too afraid to ask in class. These are many ways that this can be done. Most schools that offer this do it through a service that gives students private access. This helps to ensure that the chat rooms stay schools related. This can also give the student the ability to ask a question in private to faculty if they do not feel comfortable asking about it in a public forum.

#### Computers in the Classroom:

Computers have become an essential part of life for most parts of the world. Even in their world countries, many have started using computers to help improve education. The computer will give the student the chance to strengthen their skills with these machines as society grows more dependent on them for everyday functions in life. People need to understand the basics of the computer as well as navigating the internet.

#### Virtual Gaming:

For many, video games and virtual bring up an image of relaxation and time for fun. They are important for those who are going into digital and video game programming. One of the biggest examples of this is with virtual gaming for education surgical students.

---

#### Factors Affecting Adoption Of Technology- Driven Education:

Although there are numerous benefits attached to technology-driven education, some factors are militating against the adoption of technology-driven education. Some of these factors are as follows;

#### Technology and Purpose of Education:

In recent years, there has been an intense debate on the purpose of higher education. One school of thought emphasizes on 'meeting the industry demand or labor- market need' while other view focuses on developing and emerging economies, a large number of students do not have the affordability to pursue higher education. Taking the advantage of the commercialization potential and lack of transparency, many players have flooded technology-driven virtual courses that claim to replace neither the conventional process of higher education and providing an opportunity to earn certificates/degrees virtually without a focus on labor- market need nor development of overall capabilities of students in a generic/specific manner.

#### Balancing the Teaching- Learning Requirements:

Any higher education programme comprises of several courses. Nature of the courses varies and so the learning- needs. For example, technology subjects could be fit for complete online learning with minimal face- to- face support, however, some courses need face- to- face peer learning and tutor support. Although, there have been some efforts to bridge the gap using innovative technological platforms for real-time knowledge sharing, still a long way to go. The technology-driven education is primarily based on the fundamental premises of 'standardization'. While designing and delivering online programs, the challenges arising due to this course-related and learner- related variations have not been addressed carefully.

#### Inadequate Competency of Teachers:

Many teachers are not technology savvy. As a result, even if technology resources like projectors are made available, they do not utilize these resources because they are unable to operate these resources. Hence, training has to be carried out for teachers to include in the competencies required in utilizing various technological resources such as projectors and computers.

#### Inadequate Finance:

Technological resources such as computers are very expensive. A lot of times, many schools cannot afford to have these facilities. Hence, the resources are either unavailable or inadequate. Government has a huge role to play in this perspective by providing funds for providing such resources. Exposing students to various technologies have also increased their

---

curiosity about how those technologies can be used in a negative way. Due to peer pressure and get-rich-quick syndrome, many individuals who were exposed to technology such as the internet for educational purposes not utilize such platform in defrauding others. Hence, individuals in the local and global community are at risk of being defrauded. In addition, this has also given Nigeria a negative name in the global perspective. Being a Nigerian is almost seen as a crime and individuals are double checked for crime history being granted visas due to the popularization of internet fraudsters in the country.

#### Conclusion:

Technology-based education is an absolute necessity for success in the academic world in the twenty-first century. Technology-based education is very important and has some social implications for individuals, societies, and nations. The positive social impact of technology-based learning includes the development of employable individuals, collaborative learning, improvement in the research process, globalization, no-geographical limitations and increase in the population of educated people. However, technology-driven education can also be misused leading to negative consequences for societies such as the proliferation of individuals involved in online fraud, insensitivity to human feelings, cyberbullying, digital divide and declining writing skills. To enhance the positive social impact of technology-driven education and to mitigate the negative impact of technology-driven education, recommendations were made.

#### References:

- <https://www.theguardian.com/teacher-network/2012/sep/10/future-impact-technology-teaching-learning>
- <https://www.waterford.org/education/the-impact-of-social-innovation-in-education/>