



The Impact of Digital Technology on Learning Methods in Primary Schools

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Article Information:

Received : June 10, 2024

Revised : July 19, 2024

Accepted : August 1, 2024

ABSTRACT

Nowadays, technology has brought a huge impact on education. This research discusses the impact of the application of digital technology on learning methods in elementary schools. Data was obtained from observations, interviews from several teachers who have applied digital technology in the learning process, secondary data from books, journals, and others. The results can be concluded that there are several positive and negative impacts of the application of digital technology in learning: 1) It makes it easier for teachers in the learning process, media and learning methods, 2) Students are easier to receive and understand material from the application of learning technology as a medium or learning method, 3) Learning becomes interactive and fun. Digital technology allows teachers to provide services without having to face students directly so that it can increase efficiency in the learning process. Negative impact: sometimes there are students who are dependent on digital technology which can lead to the loss of critical and creative thinking skills, social skills, and independent learning abilities due to searching habits and the like.

Keywords: *Digital Technology, Elementary School, Learning Methods.*

Journal Homepage <https://journal.ypidathu.or.id/index.php/jnhl>

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How to cite: Ni'mah, A. N & Nurullah, M. (2024). The Impact of Digital Technology on Learning Methods in Primary Schools. *Journal Neosantara Hybrid Learning*, 2(2). <https://doi.org/10.70177/jnhl.v2i2.1783>

Published by: Yayasan Pendidikan Islam Daarut Thufulah

INTRODUCTION

The rapid development of digital makes a teacher must be able to make good use of technology. Especially in the learning process at the elementary school level. Many educational institutions have used digital technology in their learning methods. The existence of digital technology is an opportunity for teachers to be creative in utilizing digital technology as a medium in learning processing. Learning media with digital

technology is felt to be easier, more effective and makes it easier for students to understand the material taught by the teacher.

This article needs to be done, because the existing article still does not explain the impact of digital technology on learning methods in elementary schools. Some of the existing writings include, namely, that in implementing digital technology there are positive and negative impacts of digital technology on education today (Hakim & Yulia, 2024). The transformation of digital technology applied in the learning process still faces challenges and impacts faced by teachers (Haq et al., 2023).

The purpose of this paper is to find out the impact of digital technology in learning, integrating digital technology can improve or even hinder the teaching and learning process, and understand the impact of digital technology on learning methods applied in the classroom. A clear and in-depth explanation is expected to provide a practical contribution to the implementation of learning in elementary schools.

This paper is based on a belief that in the learning process teachers must be able to use and utilize digital technology properly and wisely, so that in its application in the classroom there are changes in learning and the negative impact decreases. Therefore, this paper is based on the belief in the main argument, in the application of digital technology, teachers can use it as a learning medium. The learning process becomes more active, students become active and enthusiastic in learning, but on the other hand, the impact of the application of digital technology is still found. This paper is knowledge for readers about the impact of digital technology on learning methods in elementary schools.

RESEARCH METHODOLOGY

In this digital era, there are developments in everything, as well as in education. The existence of digital technology makes teachers as educators required to be able to use technology wisely, such as used in the application of learning media. However, in its implementation, every teacher must find challenges and impacts faced in the classroom both from their teachers and students. An in-depth study needs to be done for further knowledge. This research focuses on the use of digital technology in learning methods in elementary schools. The object chosen is in educational institutions at the elementary / middle school level. This research was carried out in several schools in Malang where teachers have applied digital technology in learning methods.

This research is produced from qualitative research, where data is obtained from observations, interviews, and documentation reviews. Observation is used to see the teacher's learning process by utilizing digital technology in learning methods, interviews are used to obtain information from the application of digital technology and its impact encountered during the learning process. Interviews were conducted with teachers who have applied technology in learning as well as documentation.

RESULT AND DISCUSSION

The learning process today has coexisted with digital technology so that it is easier to improve the skills needed by a teacher in the teaching and learning process. With technology in education, it makes it easier for students in the learning process and to create more effective learning. As revealed by several teachers at school C, it shows that in learning using digital technology, teachers are greatly helped in the learning process so that the learning process runs smoothly and students are more active and quickly grasp the learning delivered by the teacher. This is also the same as what the teacher at school B said that in the school with digital technology is very important and useful in learning, students understand more from concrete objects from real videos or images and are easy for students to understand. Likewise, what the teacher of school A said that from the application of digital technology in the school, teachers can provide more concise, simpler and time-saving material, students can indirectly be taught related to digital technology.

Learning by utilizing technology as a learning medium is a very important thing used by teachers in learning, because it is very helpful for teachers. Learning media using digital technology, for example using laptops, TVs, LCD projectors, and applications on today's platforms. Many teachers have used digital technology as a learning medium to intermediary to deliver material to students so that learning runs effectively and enjoyably. Based on interviews with teachers, it is stated that in using digital technology it is increasingly easier for teachers to deliver material, there are many applications that can be accessed online and for free, such as quiziz, youtube, and others, and make it easier for teachers to find learning resources to compile learning materials.

The use of digital technology as a learning medium is something that must be done by teachers, because it makes it easier for teachers in the learning process. Digital technology is available in various applications that can be accessed online and free for learning, for example applications for designing learning videos, game applications and others. As in the use of digital technology, it is very useful for teachers and students in learning. Based on interviews with teachers at school A, it shows that students become more active and enthusiastic in learning with digital technology as an intermediary to deliver material. The results of the interview with the Principal at school B show that in learning at the school, teachers have used digital technology as a learning medium.

The use of digital technology as a method of learning in elementary schools is one way to increase efficiency and effectiveness in the learning process in the classroom. In this case, teachers must develop knowledge in utilizing digital technology. However, in its application it is a good progress in learning, which is very helpful for teachers and students in the teaching and learning process. In its application, a teacher must find positive and negative impacts of the existence of digital technology in the learning methods carried out by teachers. Based on interviews with teachers at school A, it shows that the school has implemented digital technology in this classroom is very beneficial for teachers and students, teachers can easily convey material with interactive

methods as well as students are more active and enthusiastic in learning in the classroom. Similar to what the teacher in school B said who has also used digital technology in learning, the use of digital technology as a learning medium really helps teachers make learning interactive and innovative and students easier to understand the material delivered by the teacher, while for the negative impact there is still a lack of LCD in each class. Meanwhile, from the teacher interview at school C, it was found that the positive impact was found: learning with digital technology, becoming more interesting and interactive, teachers can provide more concise material with more model choices, simpler and time-saving, students can indirectly be taught related to digital technology, while the negative impact: sometimes students are dependent on technology which can cause loss of thinking skills critical and creative, social skills, and independent learning abilities. Because of the habit of searching and the like.

The rapid development of digital technology is the cause of the use of digital technology that is easily used by teachers in learning. A teacher can choose methods and media that are suitable for application in learning, for example by using technology in learning. This is in accordance with the results of interviews from teachers at school C that with the existence of technology for learning in today's with the condition of students who are familiar with technology, it will make it easier and smoother for the course of education or learning where students are happier and faster to capture the learning delivered using the latest technological methods, increasingly blending and more accepted by students today. Unlike school B where only some teachers use learning technology, all teachers can take advantage of this existing technology or not.

The use of digital technology in learning is an intermediary for teachers in delivering material to students. In this case, it is a challenge for teachers to apply digital technology in learning. A teacher can use technology well and wisely. A teacher can learn from digital technology first to compile learning materials. As said by the teacher at school A who stated that with digital technology, a teacher can easily learn to compile learning materials, namely learning from e-books or from simulation videos and so on. In this case, it is also from the principal's interview that in schools there is also a need for training or joint learning to support teachers in making good use of digital technology.

In the development of the times, now digital technology is increasingly supporting the creation of new technologies. The use of digital technology has been used to facilitate work, but also in the field of education (Lestari, 2018). Learning with digital technology is an innovation to increase effectiveness and efficiency in learning success, the use of digital technology is adjusted to the right method to be applied in the learning. One example of the use of technology that is commonly used by teachers is, with computers/laptops, LCDs to display images or videos, applications that can be accessed for free, glue applications, and others. The existence of technology in learning greatly supports the course of learning, helps teachers in delivering material, and makes it easier for students to grasp the material that has been delivered by the teacher. Digital technology as a tool for organizing and teaching.

Based on the results of observations and interviews from several schools that have applied digital technology in this learning process, it shows that many schools have used digital technology as a learning medium. With this technology, teachers can convey material through digital platforms in the form of videos or images to be real, explanations that are more concise, simple and interesting so that learning is interactive and fun for students and easier for students to accept. In this case, technology plays a very important role in today's world of education, digital technology provides access to a wider range of educational resources, facilitates information search, facilitates communication, and collaboration between students and teachers, and allows the use of more interactive learning methods (Di et al., 2023).

The application of digital technology makes it easy for teachers to apply in learning, teachers can access all materials from digital technology, deliver material with digital technology intermediaries. In addition, teachers can manage learning in advance, with limited time in preparing learning materials using digital technology (Latif, 2020). In this case, there is a positive impact on teachers, there is also a negative impact on students in learning using digital technology. Digital technology can improve the quality of learning to be more effective, facilitate access to information needed in the learning process, become an innovation in learning, facilitate school administration, make it easier to deliver materials more easily spread and can be accessed at any time, and provide experiences for children (Fitri, 2017).

Based on the results of interviews with several teachers whose schools have used digital technology in learning, it shows that many schools have implemented digital technology by downloading applications on the platform for free. In addition, teachers are used to using digital technology. In some schools, there has been a change in the positive impact of the application of digital technology, teachers have become easier to deliver material, as well as students are easier to receive material delivered by teachers, then teachers can easily design or use applications that are already available on Google that can be downloaded and then applied in the classroom. Learning becomes interactive and makes all students happy and understand the material taught by the teacher. Learning with digital technology, becomes more interesting and interactive, teachers can provide more concise material with more model choices, simpler and time-saving, students can indirectly be taught related to digital technology. On the other hand, negative impacts are also found, there are also schools that still lack LCD projectors, lack of guidance to teachers, and sometimes students are dependent on technology which can lead to the loss of critical and creative thinking skills, social skills, and independent learning skills. Because of the habit of searching and the like. Therefore, the existence of this media opens up new possibilities in creative and dynamic learning, providing challenges and opportunities for students to understand and master the material more interestingly and deeply. In this case, the use of digital technology in learning opens up opportunities for students to gain active learning experiences, build knowledge, facilitate problem solving, and engage with knowledge in depth (Arikarani & Ameeruddin, 2021).

CONCLUSION

In the use of digital technology in the field of education, there have been many learning that apply the use of digital technology. In its application, there are positive impacts and negative impacts encountered in learning. The positive impact in learning is that students become more enthusiastic and easier to understand the material delivered by the teacher. The impact for teachers, namely making it easier for teachers in the learning process, making it easier for teachers to make media and learning methods that are suitable for application in learning. There is a negative impact that sometimes there are students who are dependent on digital technology which can cause the loss of critical and creative thinking skills, social skills, and independent learning skills due to the habit of searching and the like.

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