



THE IMPORTANCE OF INFORMATION TECHNOLOGY IN SUPPORTING THE TEACHING LEARNING PROCESS IN ELEMENTARY SCHOOL

Anisa Manongga, Abdul Rahmat, Rusmin Husain

Postgraduate Study Program Basic Education

Gorontalo State University

anisamanongga3@gmail.com

Article history:	Abstract:
<p>Received: 7th September 2021 Accepted: 7th October 2021 Published: 25th November 2021</p>	<p>Today's technology is the result of the formation and development of science, and occurs in the field of education. Very suitable for education. Education itself is also suitable for the use of technology to assist the implementation of learning. If information technology is not suitable for the implementation of education, it will be difficult to catch up with the increasingly advanced technology today. As the researchers found in one of the schools in Pone Village, West Limboto District, Gorontalo Regency, namely at Madrasah Ibtidaiyah Muhammadiyah Pone. The school does not have adequate information technology, and the incomplete infrastructure at the school prevents students from learning more about increasingly advanced technology. In this study the researcher used a survey method, the type of qualitative descriptive research. Data collection techniques in this study are observation, interviews and documentation. i Technology in education is a system that is used to support learning so that the desired results are achieved. The implementation of technology in education in Indonesia is that technology can be used as learning, administrative tools, and learning resources.</p>

Key Words: Information Technology, Learning Resources

INTRODUCTION

Science develops from time to time. The development of this science supports the creation of new technologies that mark the progress of the times. So far, the technology developed has entered the digital stage. Including in Indonesia, every field has begun to use technology to advance work, including education.

As an entity related to human culture and civilization, education around the world has undergone very basic changes in the era of globalization. Many advances in science and technology that can be enjoyed by mankind. On the other hand, this progress is accompanied by the suffering of many human children, especially in the era of globalization.

Technology is the result of the development of science, and takes place in the field of education. Therefore, education itself must also use technology to assist the implementation of learning. This is in accordance with the opinion of Lestari (2011) which states that digital technology has now begun to be used in educational institutions as a means to support learning, either as an information tool (i.e. as a means of accessing information) or as a learning tool (i.e. as a means of supporting learning activities). and tasks).

Technology is the result of human creation. Therefore, it is natural to have a shortage or negative impact. In the field of education, apart from having a positive side, technology also has a negative side. If a school does not have adequate information technology, the school will experience backwardness in the teaching and learning process. Rusmin (2016) In this century, especially in the field of Information and Communication Technology (ICT), which is very sophisticated, this world is getting narrower. Due to the sophistication of ICT technology, various information from various corners of the world can be accessed instantly and quickly by anyone and from anywhere. Interpersonal communication can be done easily, cheaply anytime and anywhere.

As the researchers found in one of the schools in Pone Village, West Limboto District, Gorontalo Regency, namely at Madrasah Ibtidaiyah Muhammadiyah Pone. The school does not have adequate information technology, and the incomplete infrastructure at the school prevents students from learning more about increasingly advanced technology. Sophisticated technology can make students more creative to explore students' imaginations.

RESEARCH METHOD

This research was conducted at Madrasah Ibtidaiyah Muhammadiyah Pone. The method used in this study is a survey method, a type of qualitative descriptive research. Data collection techniques in this study are observation, interviews and documentation. A format for the preparation of learning tools has been provided, which is then prepared by students as an assessment material.

RESULTS AND DISCUSSION

The use of technology is not a new thing in the era of globalization. Including in the world of education, as the birthplace of technology, it is only natural that education also uses technology to facilitate the implementation of learning. From here, comes the term educational technology. Educational technology is a systematic method for planning, using, and assessing all teaching and learning activities by paying attention to both technical and human resources and the interaction between the two, so as to obtain a better form of education. Rahmat (2019), technology is part of the "objective reality" as a result of the momentum of the externalization process. And like other elements of "objective reality", technology is also not "stable". Meanwhile, according to Yusuf (2012) educational technology is a systemic process in helping to solve learning problems. This opinion is in line with the opinion of Lestari (2011) which states that educational technology is not about devices, machines, computers or other artifacts, but rather it is about systems and processes that lead to the desired results.

From some of the opinions above, it can be said that educational technology is a system that is used to support learning so that the desired results are achieved. Educational Technology is a systematic study of how educational goals can be achieved in accordance with the provisions of the use of information technology for learning in schools.

Anggraeny (2020) Learning using technology serves to provide convenience for students to understand and explore learning concepts and can increase the spirit of learning, because the material presented attracts students' attention. Learning given to students must generate student interest so that students have enthusiastic participation in teaching and learning activities. The media used are images and films that are displayed through a projector.

Although from year to year the definition of educational technology is always evolving, in general it can be concluded that educational technology is a field of study, theory, means, disciplines, and ethical practice to facilitate and simplify the educational process and also as an integral process in analyzing problems, find solutions, evaluate, and obtain problem solving related to all aspects of human learning by using various learning resources and tools that support aspects of learning and education.

From the results of observations, researchers can prove that learning using technology today is very sophisticated, but it is very unfortunate that Madrasah Ibtidaiyah Muhammadiyah Pone (MIM Pone) has not implemented information technology-based learning media due to limited infrastructure. In MIM Pone students who will take the Computer-Based National Assessment simulation must go to a school with complete and adequate infrastructure, and it will take ten to fifteen minutes. This should be of more concern to advance education in Indonesia.

Learning media is something that can be used to channel messages (learning materials), so that it can stimulate students' attention, interests, thoughts, and feelings in learning activities to achieve learning goals. The use of technology as a learning medium is familiar, ranging from very simple technology to sophisticated technology. Technology can be used to attract students' interest in learning so that learning becomes more effective and efficient.

Learning using computers will provide higher motivation, because computers will be associated with fun, creativity, and games. Learning using computers will provide opportunities for students to get authentic learning materials and get broader learning. From the results of observations made by researchers when learning using media students are happier and easier to understand the material presented by the teacher. The use of learning media can also increase students' learning motivation. From one of the studies conducted by Ghavifekr (2016) with the title Teaching and Learning with Technology: Effectiveness of ICT Integration in Schools resulted in the conclusion that technological communication will help the needs of teachers in the learning process to replace traditional teaching methods with technology-based teaching tools and facilities. . The integrity of teaching by using teaching media will help the effectiveness of teachers and students. This research shows that teacher preparation is well equipped. Technological tools and facilities are a major factor in the success of the learning process in schools.

The development of science has brought technology into the digital world. According to Lestari (2011), the use of digital technology has a role in supporting and improving students' cognitive processes and thinking skills. One example of digital technology is the internet. The internet can allow teachers to present lessons more interestingly for students. Currently, internet-based learning, such as web-learning, e-learning or online learning (distance learning) has been widely practiced. These lessons use the internet as a medium. Besides learning to be more flexible in terms of time, place and age, students can also access the information needed in learning freely. Because learning becomes more individualized, this can improve students' cognitive processes and thinking skills. Another example of the use of technology as a learning medium is radio, television, and video which can be used to facilitate the learning styles of different students and also attract students to be more motivated in learning. The use of interactive presentation devices such as electronic whiteboards can make learning materials more interesting for students.

Technology can also be used as an administrative tool. As Lestari (2011) said that one of the benefits of digital technology is to improve the effectiveness of organizing educational institutions. By using computers, as a digital technology product, educational institutions can more easily manage administrative data, including student data, teacher data, and school data itself.

Wijayanti (2011) Information technology can be used to assist administrative work (Word processor & Basic Requirements, Spreadsheet). In the current era, various administrative needs, correspondence, and messaging have started to be electronic based, therefore it is time for teachers to innovate information technology-based learning and provide students with administrative skills, electronic-based spreadsheets.

From some of these opinions it can be concluded that technology has a big role in the current era, not only to facilitate the teaching and learning process between teachers and students, but for the sake of administration in today's increasingly sophisticated schools that can use this technology. Teachers easily make tools for school purposes such as syllabus, school data lesson plans, and student data if information technology is adequate.

Fitriansyah (2019) Self-learning resources are learning tools that are either utilized or intentionally designed to meet learning needs. Learning resources are not only limited to materials and tools, but also include manpower, costs and facilities, so that in the process, learning resources can be used separately or in combination. Safira (2011) says digital technology can help teachers to produce lesson materials and allow them to spend time with students. With the availability of computers, teachers can develop lesson plans and materials needed by students to learn. In addition, the availability of the internet also allows students to easily access information from different sources.

Currently, by using digital technology, students get a lot of convenience in learning. The availability of e-books is one of these conveniences. Students do not need to buy books in stores to get learning resources. Students only need to download e-books that are widely available on the internet.

CONCLUSION

Education in the current era means the integration of national education into world education. Students must be equipped with adequate competencies so that students exist in a highly competitive global era. There are several problems and challenges faced by the world of education in the era of globalization, including the quality of education, professionalism of educational staff, culture (acculturation), learning strategies, challenges to management improvement, and challenges to advances in science and technology.

Technology in education is a system that is used to support learning so that the desired results are achieved. The implementation of technology in education in Indonesia is that technology can be used as learning, administrative tools, and learning resources. The impact of technology in education in Indonesia, apart from having a positive impact, also has a negative impact. The positive impact is more efficient in terms of time, costs, logistics and other institutional problems. While the negative impact is that technology can change social life.

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