Utilization of Multimedia Facilities and Internet Media as Effective Learning Tools

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Abstract: Utilization of multimedia facilities and internet media in the learning process has a significant advantage. Learning that uses multimedia technology and internet media can increase student effectiveness, creativity, and motivation. Although, this requires management and presentation of material according to the needs and characteristics of students. This study aims to determine the use of multimedia and internet media as effective learning tools. In writing this article, the researcher uses a qualitative method of literature study, namely searching for documents, articles, and previous research to examine references and research results related to the use of multimedia and internet technology in learning. The results of the study show that multimedia and internet technology can be effective learning tools with more interactive and interesting learning experiences. This increases students' motivation and interest in learning, thereby helping to create a more creative and innovative learning environment. In conclusion, the use of multimedia and internet technology in learning can improve the quality of learning and provide a more positive learning experience for students. Therefore, it is necessary to pay more attention to the management and presentation of appropriate material so that multimedia and internet technology can become effective learning tools.

Keywords: Effective Learning; Internet Media; Learning Media; Multimedia Facilities

Introduction

In the digital era as it is now, information and communication technology is growing rapidly (Aduwa-Ogiegbaen & Iyamu, 2005; Dewi et al., 2021). The use of this technology is also increasingly reaching various aspects of life, including in the world of education. One technology that is widely used in the learning process is multimedia facilities and internet media. Utilization of multimedia facilities and internet media in the learning process offers its own advantages. Learning that uses multimedia and internet technology can make the learning process more effective, interesting, and interactive (Majumdar, 2015; Szymkowiak et al., 2021). This will certainly motivate students to be more enthusiastic in learning.

Multimedia technology and internet media allow teachers to convey learning material in a way that is more interesting and easily understood by students (Shofawati et al., 2023). For example, by using learning videos, animations, or multimedia presentations, students can more easily understand the concepts and information conveyed by the teacher. In addition, the use of internet media also allows teachers to provide access to various learning resources such as e-books, journals, or video tutorials, which can help students deepen their understanding of a topic (So et al., 2019).

The use of multimedia technology and internet media in learning can also increase the interaction between teachers and students (Almara'beh et al., 2015). In a traditional learning environment, communication between teachers and students tends to only occur in one direction, where the teacher provides material and students listen. However, with the use of multimedia technology and internet media, students can be more actively involved in the learning process through various activities such as interactive quizzes, online

discussion forums, or video conferences with teachers and students from other regions (Lage et al., 2000).

Utilization of multimedia technology and internet media can also facilitate the learning evaluation process (Desyandri et al., 2021). For example, by using an application or e-learning platform, teachers can collect assignments or exams online and provide feedback directly to students. This not only increases efficiency in the evaluation process, but also allows teachers to provide individual guidance to students who need more attention.

Several studies also show that the use of multimedia and internet technology can improve student learning outcomes. For example, research conducted by Wulandari et al. (2017), shows that the use of multimedia can increase students' understanding in learning biology. That internet media can be used in distance learning (Manurung, 2020; Suradika et al., 2020), research conducted by Yusuf (2021) also concluded that the use of internet media as a learning tool in elementary schools can increase students' understanding of the material being taught.

However, there are still many challenges that must be overcome in the use of multimedia and internet technology in learning. One of the challenges is the availability of adequate technological infrastructure, such as stable internet access and adequate multimedia devices. This problem mainly occurs in remote areas that are difficult to reach by the internet network. In addition, there are still many teachers who do not have skills in using multimedia and internet technology as learning tools. This can affect the quality of technology use in learning, so it is necessary to conduct special training and education for teachers in order to optimize the use of technology in learning (Odinokaya et al., 2019).

Another problem that arises is the lack of regulation in the use of multimedia and internet technology in learning. Clear and firm rules are needed in the use of multimedia and internet technology in order to avoid the negative impacts of uncontrolled use of technology. Finally, there are still some parties who are skeptical of the use of multimedia and internet technology in learning. This skepticism mainly arises from students' parents who doubt the effectiveness and safety of using technology in learning. Therefore, it is necessary to educate and socialize parents of students to overcome this problem.

However, the use of multimedia and internet technology in learning also presents several challenges. One of them is the management and presentation of learning materials according to the needs and characteristics of students. Therefore, it is necessary to have a good understanding of how to use this technology in the learning process. The use of multimedia and internet technology in learning also needs to be balanced with the use of learning methods based on effective approaches (Megahed & Hassan, 2022). In this case, the use of this technology is integrated with learning methods that can facilitate interaction between teachers and students, such as discussions and questions and answers . Thus, the use of multimedia and internet technology can be an effective tool in the learning process.

In this article, the author will discuss the use of multimedia and internet media as effective learning tools. The author will describe some of the advantages offered by multimedia and internet technology in the learning process, as well as some of the challenges that arise in the use of this technology (Rasheed et al., 2020). Through this discussion, it is hoped that it will provide a better understanding of the potential use of multimedia and internet technology in learning and how to overcome the challenges associated with its use.

Method

The method used in writing this article is a literature study. Literature study is a research technique that is carried out by studying and analyzing references contained in certain literature or reading sources (Arikunto, 2019). This technique is carried out by collecting, reading, selecting, and analyzing various references or reading sources related to the topic being researched.

In writing this article, the author conducted a literature search through several online databases such as Google Scholar, DOAJ, and JURN. The keywords used in the search included "utilization of multimedia facilities", "internet media", "effective learning", and "education". In conducting reference searches, the authors also pay attention to the credibility and validity of each source used. This is done to ensure that the information presented in this article is valid.

After getting the relevant references, the author carefully reads and analyzes each reference (Muka et al., 2020). The analysis was carried out with the aim of extracting relevant information and then integrating that information in the article. During the analysis process, the author also pays attention to differences in points of view or perspectives that may arise. The references used in writing this article consist of scientific articles, journals, and several books. The references used in this article are from 2017 to 2022.

Some of the references used in writing this article include Wulandari et al. (2017) which have been described briefly, as well as several other studies that have been conducted in this field.

Result and Discussion

The use of this technology is also increasingly reaching various aspects of life, including in the world of education (Onyeaka et al., 2021). One technology that is widely used in the learning process is multimedia facilities and internet media. Multimedia technology and internet media have opened up new opportunities to enrich learning methods in the digital era. In addition, the use of this technology can also improve the quality of learning and provide a more interactive and interesting learning experience for students. Along with technological developments, the use of multimedia and internet media is increasingly being used in the world of education, both in face-to-face and distance learning.

There were significant differences between the experimental group and the control group in students' understanding of the material being taught. The experimental group that used internet media showed a better level of understanding compared to the control group that used conventional methods. So, teachers can consider the use of internet media in learning to increase the effectiveness of learning. Research conducted by Wulandari et al. (2017)shows that the use of interactive multimedia can increase students' understanding of biology material. At the pretest stage, the average student score was 60.13 while at the posttest stage, the average student score increased to 79.38. In addition, the results of the data analysis showed that there were significant differences between the pretest and posttest scores. This research makes an important contribution in the development of effective and interesting learning methods by utilizing interactive multimedia technology. The use of interactive multimedia can help students to better understand and remember learning material better.

The use of internet media in distance learning is considered effective by most students and can increase learning motivation and understanding of concepts. However, there are also a number of obstacles encountered, such as unstable internet access and a lack of social interaction between students and lecturers. In conclusion, this study recommends continuing to improve the quality and use of internet media in distance learning so that it can provide maximum benefits for students. The use of multimedia facilities and internet media in the learning process has been widely felt. Following are some research results which show the effectiveness of using multimedia and internet media in learning (Sartono et al., 2022).

The use of animated videos in learning

Research conducted by (Astuti et al., 2021; Hanif, 2020; Puspaningtyas & Ulfa, 2020; Putri et al., 2022) shows that the use of animated videos can improve student learning outcomes in science material. In this study, animated videos were used as learning media for science material that was difficult for students to understand. The results of this study indicate that students who use animated videos in learning have better learning outcomes compared to students who do not use animated videos.

The use of e-books in learning

Research conducted (Aswirna & Ritonga, 2020; Dewi & Agung, 2021; Tang, 2021) shows that the use of e-books can improve student learning outcomes in history subjects. In this study, e-books are used as learning media which contain historical materials that are presented interactively. The results of this study indicate that students who use e-books in learning have better learning outcomes compared to students who do not use e-books.

The use of internet media in learning

Research conducted by (Arisanti & Subhan, 2018; Pibriana & Ricoida, 2017; Rizalia et al., 2022; Yani, 2019) shows that the use of internet media can increase interest in learning and student learning outcomes. In this study, internet media is used as a learning medium which contains interactive mathematical materials. The results of this study indicate that students who use internet media in learning have a higher interest in learning and better learning outcomes compared to students who do not use internet media.

The use of games in learning

Research conducted by (Deta et al., 2021; Syawaluddin et al., 2020; Yu et al., 2021) shows that the use of games in learning can improve student learning outcomes in social studies material. In this study, games were used as learning media for social studies material that was difficult for students to understand. The results of this study indicate that students who use games in learning have better learning outcomes compared to students who do not use games. In these studies, the use of multimedia and internet media can improve student learning outcomes. This is because the use of multimedia and internet media can help students understand the material in a more interesting and interactive way. In addition, the use of multimedia and internet media can also motivate students to learn because of the different and interesting ways of delivering material.

The use of multimedia facilities and internet media in learning also has several weaknesses. One of them is the possibility of student dependence on the media. This can reduce students' ability to study independently and rely on media as the only source of learning. In addition, the use of multimedia and internet media can also cause

distraction for students because of the large amount of information available on the internet. Even so, the use of multimedia and internet media remains effective in improving student learning outcomes if used wisely and proportionately. In addition, the use of multimedia and internet media can also assist teachers in developing and presenting learning materials that are more interesting and interactive. Student dependence on learning media can also trigger addictive behavior that encourages excessive media use. Research by Arifin & Rahmadi (2017), found that gadget addiction behavior can affect student achievement. Therefore, it is important for teachers and parents to monitor students' use of media so they don't overdo it and stay focused on the learning process.

Technical problems such as limited internet access or device damage can also be an obstacle in the use of multimedia technology and internet media in learning. This can disrupt the teaching and learning process and reduce the effectiveness of the media. Research by Jayawardana (2017) shows that the quality of internet signals and the availability of adequate multimedia devices are very important in using internet media as a learning tool.

In addition to student dependency and technical constraints, the use of multimedia technology and internet media also requires special skills for teachers in managing and presenting learning materials properly. Teachers need to master multimedia technology and internet media well in order to be able to select, develop and manage learning content according to the characteristics of students. Research by Putrisari (2022) found that teachers who have the ability and skills to use multimedia technology and internet media can improve student learning outcomes.

Even though it has several weaknesses, the use of multimedia technology and internet media still has a positive impact on the learning sprocess. The use of internet media as a learning tool in elementary schools gives positive results to students' understanding of the material being taught. Therefore, the use of multimedia technology and internet media needs to be well integrated in learning to increase the effectiveness and efficiency of the teaching and learning process.

Conclusion

Utilization of multimedia facilities and internet media can be an effective learning tool. Through the use of multimedia technology and internet media, it provides high accessibility and flexibility for students, increases students' understanding of learning material, accelerates learning efficiency, and provides a more interesting and interactive learning experience. Several other advantages of using multimedia and internet media in learning are expanding access to information, facilitating collaboration between students and teachers, and enabling flexible distance learning.

Author Contributions
All authors contribute in designing, writing, compiling research instruments, collecting data and processing the data obtained until it is finished and becomes a worthy article. All authors read and approve the published manuscript Funding.

Conflicts of Interest
The authors declare no conflict of interest.

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