Benefits Of Learning Based On Information And Communication Technology Media

Wilen Hartarto[1], Meriyati Meriyati[2], Umi Hijriyah[2]
[1] Universitas Muhammadiyah Lampung
[2] Universitas Islam Negeri Raden Intan Lampung, Indonesia

Corresponding Author:
E-mail: wilenhartarto@gmail.com

Abstract:

Teachers already have competencies, namely pedagogic competence, personality competence, social competence, professional competence, and leadership competence. and leadership competence, but in implementing this needs to be improved again to be more optimal, especially in terms of effective use of information technology-based learning in the learning process learning. Based on the above, this research needs to be done to describe the utilization of Information and Communication Technology-Based Learning Media in Islamic Education Learning. Information and Communication Technology-Based Learning Media in Islamic Religious Education Learning at SMK Bina Mulya Bandar Lampung, Indonesia. This research seeks to analyze how the actual picture of the utilization of learning media based on communication and communication technology (ICT) in The subjects in this research were, 1 ICT teacher; 4 teachers of non-educational subjects; 2 of them were Islamic Education teachers; and 2 of them were Islamic Education teachers. Two of them are PAI teachers, and the other 20 are students at SMK Bina Mulya Bandar Lampung. 20 students were at the school. Data were collected by observation, interview, and documentation methods. Data analysis was carried out using Miles and Huberman techniques. then to examine the validity of the data, researchers used triangulation.

Keywords: Benefits Of Learning; Information And Communication Technology; Media

Introduction

The development of technology and information is something that cannot be undeniable(Lee, 2019). Along with the progress of the times, humans are increasingly accustomed to the sophistication of technology(Crofton et al., 2019). Likewise in the world of education(Oga-Baldwin, 2019). The advancement of technology and information requires that teachers able to utilize learning media based on technology and information-based learning media that is creative and innovative(Widarti et al., 2020).

The problem of education and teaching is influenced by many factors(Tehseen, 2015). Teachers are one of these factors(Kettle & Sellars, 1996). The role of teachers in education and teaching is very important and significant(Ben-Peretz et al., 2003). A teacher is very responsible for the success of the learning process(Dickinson, 1995). By using textbooks and other media, the teacher's role in student learning is to communicate the subject matter to the students(Azkiya & Sari, 2017). In student learning is to communicate the subject matter to the students through interaction and communication(Smutny & Schreiberova, 2020). them through interaction and communication(Frykedal et al., 2019). To the conditions of the learning environment and the condition of the students themselves, the success of the teacher in delivering the material depends on the selection of appropriate learning media(Simamora, 2020).

Nowadays, information and technology (IT) is starting to enter the world of education(Iivari et al., 2020). education, schools are starting to utilize it in the learning process(Sindiani et al., 2020). Technology and information have become part of our lifestyle, especially in the academic world(Pan et al., 2020). Teachers are required to be able to use tools that can be provided by the development and demands of the times(Assunção Flores & Gago, 2020). Besides traditional tools in the form of a blackboard, the learning process has utilized projectors, slides, films, the internet, and even computers(Winarto et al., 2020).

National Education System Law No.20 of 2003 turns out that they have realized the acceptance of the recognition that it is no longer the time to rely on conventional approaches alone in organizing the national education system(Tabroni et al., 2022). It is not only in a closed room with books and teachers who are asked to help show the source of information, students can fulfill their desire to be smarter, more intelligent, and can fulfill their desire to be smarter, more intelligent, better, and more prosperous in life(Abdel-Basset et al., 2019). However, the transformation of learning messages by utilizing advances in educational technology will be more motivating for learners(Li et al., 2020).

Teaching materials are presented with a computer as a tool in information technology-based learning, making learning activities more interesting and challenging for students(Jannah et al., 2020). In addition, by using information technology-based learning media can be done by students who are expected to solve their own problems to complete teacher assignments independently. Media is one of the most important elements in conducting teaching and learning activities. process of teaching and learning activities. Media as a technique used to further streamline communication between teachers and students in the process of school education and teaching.

The development of information and communication technology continues to increase along with the increasing needs of humans, without exception in the field of education. the field of education. The tendency to use the symbol "e" which is interpreted as electronic, has begun to appear and be applied in almost all fields. e-education, e-government, e-learning, and so on. so

on, the role of teachers in applying the utilization of media information and communication technology-based media utilization in a more appropriate manner is very very necessary to better provide an overview to the younger generation generation about the use of technology in a more appropriate and more useful.

The rapid advancement of technology is undeniably increasingly spoiling humans, for example, in terms of communication. Interaction that occurs with the use of technology becomes easier and more diverse. Technology technology in question, among others, and which is now a widespread and even a phenomenon, are websites, blogs, micro-blogging sites, electronic mail (E-Mail) phenomenon are websites, blogs, micro-blogging sites, electronic mail (e-mail), Yahoo Messenger (YM), and Google Talk (Gtalk), as well as the current become the favorite in all circles is the social media network.

Quality of learning from two aspects, namely in terms of efforts to improve the quality of the learning process led to the emergence of initiatives from both participants and students. learning process leads to the emergence of initiatives from both students and educators. factors that influence or factors that influence or support the realization of a quality learning process to achieving educational goals, one of which is the use or utilization of information and communication technology in the educational process. utilization of information and communication technology in the education and learning process. ICT in learning is known as educational technology, UNESCO officially uses the term ICT which is then adopted into Indonesian as information and communication technology. into Indonesian as information and communication technology or ICT.

The utilization of information technology in learning can bring changes in the tradition or culture of learning. The utilization of information technology in learning can be an independent learning system (instructor-independent) or combined with a direct learning process (face-to-face in class) that relies on teacher presence. face-to-face in class) that relies on the presence of the teacher. Model learning/learning resources model that relates to information technology and is currently becoming the attention of the education world are computer-based (computer-based instruction) and learning through electronic media (e-learning). (e-learning) based on web-based learning (WBL). Information technology Information and communication technology in the form of computers, the internet, cell phones, laptops, and in focus, are media that can be used in classroom learning.

PAI learning requires tools or media that can help the success of educational goals as stated in the SISDIKNAS (national education system) law. SISDIKNAS (national education system) education aims to the development of the potential of students to become human beings who believe and God Almighty, noble, healthy, knowledgeable, capable, creative, independent, and become democratic and responsible citizens. In addition, schools in urban areas usually already have advantages in terms of education, one of which is the availability of facilities and infrastructure to support ICT-based learning media such as the internet, which can be accessed quickly, learning tools or media that are easy to obtain, and the fact that students can operate ICT independently even without learning. can operate ICT independently, even without learning.

Learning Islamic Religious Education needs the right media so that the material explained is easy to understand. The existence of media ICT-based learning media has made it easier to explain the material because examples of material can be shown concretely using infocus which can display PowerPoint media, videos, slide photos, and infocus which can display PowerPoint

media, videos, photo slides, and browsing the internet either through laptops, tablets, or tablets. browsing the internet either through a laptop, tablet, or cellphone.

The application of information technology-based learning media and communication technology-based learning media in learning will certainly affect the enthusiasm of students in participating in learning activities. Vice versa if learning activities only use conventional or monotonous media conventional or monotonous media, then of course it will be able to affect the spirit and motivation of students to participate in learning activities. spirit and motivation of students in participating in learning activities. Such as the lack of enthusiasm of students in receiving explanations of material from the teacher.

Changes in learning patterns are urgently needed to renew a conventional learning system that is considered obsolete and irrelevant to the dynamics of the times. considered obsolete and irrelevant to the dynamics of the times. which is growing faster and more intensively triggered by the development of science and technology. science and technology. Information and communication technology in learning plays a role as a liaison in the implementation of knowledge transfer knowledge without eliminating the initial model of learning that learning model that takes place face-to-face in the classroom.

Utilization of information and communication technology in learning is carried out to increase the effectiveness of the implementation of the learning process which in turn is expected to improve student learning outcomes

and the quality of individual learners in terms of using technology more appropriately and usefully. One of them is influenced by the ability of teachers in making and using learning media. the ability of teachers in making and using learning media based learning media learning. For students' enthusiasm for learning and easy-to-absorb lessons, then a teacher must be required to be professional in applying learning media that is by the conditions of the students themselves, such as the use of information technology-based learning media. by the conditions of the students themselves, such as the use of textbooks and supported by information technology-based learning media. and supported by information technology-based learning media in learning.

Several previous studies have been conducted, including research conducted by Agustini, which revealed that Information and communication technology included in this study has an effect on teacher performance in Madrasah, and the utilization of information and communication technology has a positive influence on Madrasah teacher performance(Agustini, 2016). Research conducted by Iskandar reveals that the learning outcomes of students who use learning technology are better than the learning outcomes of students who do not use learning technology(Iskandar, 2019). Research conducted by Ramdhani, et.al. shows that there is a very significant difference between interest in learning using e-learning and conventional learning interest, this study concluded that learning using e-learning is superior to conventional learning(Ramdani et al., 2018). These studies are almost the same as the research conducted by researchers where the targets in the research all lead to the implementation of learning with e-learning. all lead to the implementation of learning by using learning media based on information technology and communication technology-based learning media in learning. However, there are differences from research that focuses more on learning by increasing interest in learning. Previous research compared e-learning interest with conventional learning but researchers on the utilization of learning media based on

information and communication technology in Islamic Religious Education (PAI) learning, but previous research all led to student learning outcomes.

Teachers already have competencies, namely pedagogic competence, personality competence, social competence, professional competence, and leadership competence. and leadership competence, but in implementing this needs to be improved again to be more optimal, especially in terms of effective use of information technology-based learning in the learning process learning. Based on the above, this research needs to be done to describe the utilization of Information and Communication Technology-Based Learning Media in Islamic Education Learning. Information and Communication Technology-Based Learning Media in Islamic Religious Education Learning at SMK Bina Mulya Bandar Lampung, Indonesia. This is because researchers see that there are still there are teachers who still do not utilize information and communication technology in the learning process.

Methods

This research seeks to analyze how the actual picture of the utilization of learning media based on communication and communication technology (ICT) in The subjects in this research were, 1 ICT teacher; 4 teachers of non-educational subjects; 2 of them were Islamic Education teachers; and 2 of them were Islamic Education teachers. Two of them are PAI teachers, and the other 20 are students at SMK Bina Mulya Bandar Lampung. 20 students were at the school. Data were collected by observation, interview, and documentation methods. Data analysis was carried out using Miles and Huberman techniques. then to examine the validity of the data, researchers used triangulation.

Results and Discussion

The utilization of ICT-based learning media is a tool in all school activities. In terms of academics, all educators and assignments and collecting online. back through online. Proper learning will improve student learning outcomes by improving methods, media, and utilization of existing ICT media existing ICT media. It will make students more enthusiastic about learning, and it is hoped that the results are also satisfactory. To get good results, of course, there are several steps in learning.

Teachers must be able to study the classroom situation and find positive or negative student behavior. Positive behaviors will be reinforced, and negative behaviors will be weakened or reduced. When creating a list of positive reinforcers, the teacher looks for behaviors that are preferred by students, behaviors that are punished, and activities that are discouraged. preferred behaviors, punishable behaviors, and out-of-school activities that can be used as reinforcers. Select and determine the sequence of learned behaviors and the type of reinforcers. Create a learning program. This learning program contains the sequence of behaviors for which reinforcement is desired, the time to learn the behaviors, and the type of reinforcer. behavior and evaluation.

From some of the learning steps above. Teachers must have innovations in learning, such as innovations in determining learning methods and media, so that the process of determining learning methods and media, so that the learning process succeeds appropriately. Learning activities must have supporting media, especially ICT media, or direct access to sources of access to the source of learning material so that they can function well and fulfill the learning objectives so that they are achieved well.

In this case, the source material can be a direct object or an indirect object. can also be indirect objects. Direct object means that learners are invited to visit objects or fields such as mosques or mushalla to conduct surveys. such as a mosque or mushalla to conduct a survey. If this is not feasible, the teacher can present the facts using indirect objects, such as audio (cassette) or audiovisual (movie or VCD). You can also The teacher can also make an essay that presents the fact. From the above, it can be concluded that the utilization of ICT-based media ICT-based media utilization is very necessary for the implementation of learning, especially PAI learning.

In the observations that researchers made of teachers at SMK Bina Mulya in the use of learning media based on information and communication technology shows that teachers incorporate media into the learning process. It can be seen that teachers often utilize teaching materials such as laptop media. Teachers have prepared teaching materials and teaching materials before implementation. as done by PAI teachers in class XI TKJ and PAI teachers in class X AK. class X AK. It can be seen that the teacher uses a laptop to prepare the material to be delivered, which includes videos, pictures, and PowerPoint presentations. In addition to preparing teaching or lesson materials, the teacher uses a laptop, audio, and LCD projector to visually represent learning materials. In addition, teachers also create Microsoft PowerPoint programs to facilitate the delivery of learning materials. facilitate the delivery of learning materials.

Learning media is a tool used to facilitate the process of delivering messages or information from the material that is studied. Learning media are a means used to improve the learning process. Learning media are a means used to improve the teaching and learning process so that it is more effective and efficient. Teachers are a supporting factor in the occurrence of teaching and learning activities. teaching and learning activities. As a motivator and facilitator, the teacher is expected to be able to create a learning environment that is by the learning process. is expected to be able to create a learning environment that is by the goals and characteristics of students. One of the things that can be done by the teacher in creating an interesting and enjoyable learning atmosphere interesting and fun is by using learning media.

Laptops have great benefits for educational units, especially in the learning process. As said by the PAI teacher of Class XI TKJ and the PAI teacher of Class X AK through interviews that researchers conducted with him. Laptops have several benefits, such as making the teaching and learning process easier, helping teachers fill out report cards so that they are faster and easier, and looking for reference learning materials.

LCD projectors are media that can display messages or information so that the delivery process becomes more visible, large, and interesting. interesting. LCD projectors are useful to project or display information from a computer/laptop or other information media such as DVD players and/or learning CDs. Teachers use LCD projectors to display learning materials that have been prepared, in the form of images, learning videos, and Microsoft PowerPoint files from a laptop. and Microsoft PowerPoint files from the laptop. The researcher's observation is that PAI teachers utilize Microsoft PowerPoint and display learning videos about "The Wisdom of Loving and Honoring Parents and Teachers." To make the learning atmosphere more interesting, the teacher of class X TKJ teacher shows a video related to the material to be before displaying a Microsoft PowerPoint presentation on the same subject. presentation on the same subject. In addition to the LCD projector, the teacher also uses loudspeakers (speakers) to support the delivery of material.

The internet is a network that can facilitate people's personal and social activities, such as communicating, The internet is useful as a source of information and facilitates electronic or online learning. create electronic or online-based learning that is very effective. (e-learning), which is very effective. At the time of this observation, the use of the internet network was seen as one way to find information or other learning resources that were needed for the learning process. Although the school already has internet access available, the teacher still prepares a personal hotspot for his Android device to access the internet to anticipate potential problems with the school's wifi network. there is a problem with the school wifi network.

From the findings of the researcher's interview with the PAI teacher about the utilization of ICT-based media in learning, about the utilization of ICT-based media in learning, that students more easily understand the learning material taught and pay more attention when listening to the explanation of the subject matter. In addition, students seemed enthusiastic during the learning process. ongoing. And it is also important to support every activity that involves teaching activities that aim to broaden horizons by utilizing the benefits of media based on information technology and communication (ICT) in learning Islamic religious education.

Conclusion and suggestion

Teachers at Bina Mulya Vocational High School in Bandar Lampung already have skills and knowledge in understanding learning media based on information and communication technology (ICT). Every teacher has the same understanding of media based on information and communication technology (ICT), which is a tool and media that can support learning and facilitate learning. and media that can support learning and make it easier for everyone to share information and communicate with each other, especially in terms of learning activities from the process of understanding to direct practice in its utilization. Use/utilization of ICT in PAI learning, especially by using infocus/LCD, laptops, speakers, and other tools that are commonly used in classroom learning. tools commonly used in classroom learning to display some teaching media, such as PowerPoint, and online or offline videos, which were observed during the implementation of PAI lessons. offline, which was observed during the implementation of PAI learning, so that during the implementation of learning activities, teachers and students can create an interesting learning environment. With utilizing information technology-based learning media utilizing information technology-based learning media is one solution for teachers and students to create a desirable classroom atmosphere. The utilization of ICT in PAI learning is done by using infocus, LCDs, laptops, speakers, and other tools that are commonly used in learning in the classroom to display some media, such as PowerPoint and online or offline videos, as seen in the implementation of learning activities in PAI subjects where teachers have used ICT-based learning media in every material presented. ICT-based learning media in every material presented. Utilizing information technology-based learning media is a solution for teachers and students in creating a highly desirable classroom atmosphere. very expected. The benefits of information and communication technology (ICT) based media on students in learning Islamic Religious Education at Bina Mulya Vocational School in Bandar Lampung, which is very important, can be seen from students who often use it in classroom learning then in making assignments given by teachers such as making papers, presentations, and also for browsing terms that are difficult to understand or materials that are still unclear. that are still unclear.

Acknowledgement

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