



## DEVELOPMENT OF IT-BASED PAI LEARNING MEDIA

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### Abstract:

This article aims to enable learning to progress and develop to become more effective and efficient. Apart from that, Islamic religious education also aims to develop attitudes and characters loyal and devoted to Allah SWT and in line with current realities. All educational institutions must be proactive, creative, and productive when reading current phenomena. Therefore, the role of IT is vital here, creating good designs as a basis for advances in information and communication technology, adding Islamic religious education learning activities with materials and skills and practising religion, including learning and mastery activities. However, we must also be able to use a technical approach with learning methods using the internet program "Moodle". Next, the researcher will provide information regarding the type of research that will be carried out, the planned time for the study, and the class that will be the research subject. The results achieved are developing IT-based PAI learning media, starting from the initial identification stage or carrying out preliminary research to the final revision stage.

**Keywords:** *Internal quality assurance system; Islamic boarding school; education*

### INTRODUCTION

The dynamics of growth and change from one day to the next have a negative impact on the growth of technology and information that is adapted to the needs and desires of the general public. Growth and change from day to day have a negative impact on the growth of technology and information that is tailored to the needs and desires of the general public. Technology developed by technocrats has also been proven to make a significant contribution to education, starting from biotechnology, multimedia technology and communication technology (Ngura & Fono, 2023). Therefore, it is also hoped that this technological development can improve the quality of education in Indonesia. As a strategic element of human education in future development (human resources) and national development.

Islamic education as an integral part of the national education system, apart from promoting and developing religious values, aims to improve students' knowledge and technology so that Islamic education can prepare and develop complete human resources and master science and technology (Mazrur, 2023). We must also emphasize the acquisition of skills, techniques, faith and being able to practice religion well.

Information technology, sometimes known as IT, is a field, of study and a set and set of processes designed to improve human well-being in several domains, including education. Designed to improve human well-being in several domains, including education. In theory, the use of IT in education can increase student motivation, which ultimately turns motivation which in turn can improve learning outcomes themselves (output) (Hamdan Suyuti, 2022).

In the current era of globalization, IT (Information Technology) has become a fundamental need to determine the quality and effectiveness of the learning process.

Dryden and Vos (2003) concluded from their research that self-image is more important than subject matter in an educational system that has proven successful (Rodiya et al., 2022). Therefore, the concept of future education aims to arouse students' enthusiasm for learning in a fun way (the way students learn). One approach and method that can improve this aspect is the use of information technology (IT) in the learning process. As explained by Suryadi, the need for society to utilize technology in learning is part of learning reform (Silalahi et al., 2023).

The important role of information and communication technology in the learning process, apart from creating pleasant learning conditions for students, also provides various media and tools to make their work easier and faster. This means that communication between students and learning resources can take place anytime and anywhere without being limited by space and time, so that the process of providing and presenting learning materials and ideas becomes more interesting and enjoyable.

Islamic Religious Education (PAI) is a secular corporate business which includes teaching and learning activities or tutoring carried out seriously and with dignity while still paying attention to the expected results. Which consists of teaching, learning and/or tutoring activities carried out in a manner seriously and respectfully while still paying attention to the expected results. In the context of the elderly population in Indonesia. Religion can function as a single integrative entity and also as a disintegrative entity. Religion can function as a single integrative entity and also as a disintegrative entity. For this reason, Islamic Religious Education, education in schools, needs to emphasize its contribution. Many criticisms have been expressed regarding the state of religious education. Religious education in schools. In schools. The last but not least important is the defeat of traditional teaching methods (Silalahi et al., 2023).

Lectures tend to be monotonous, the texts are static, prescriptive, detached from history, increasingly academic, and teachers are (and are expected to be) experts. Thus, the presence and progress of IT. In the current era that is completely IT-based, it has created opportunities and expanded interactions between teachers and students. Because interaction is not only limited to the classroom and students can also review material at home, PAI teachers can simultaneously use several types of media in the form of learning multimedia.

## **RESEARCH METHODS**

This research approach is qualitative in nature and wants to see the development of IT-based PAI learning media. The data used in this research are primary data and secondary data. Primary data was obtained directly from original sources using data collection techniques, namely observation, in-depth interviews. Secondary data is data obtained from documentation. The informants studied consisted of 3 (three) teachers who taught Islamic Religious Education (PAI) subjects.

Data analysis uses descriptive qualitative techniques such as information from informants and documentation results related to the development of IT-based PAI learning media. Qualitative data is interpreted according to the research objectives, then continues with analysis of problems found in the field, so that a clear picture of the object under study is obtained and then conclusions are drawn.

## **RESULTS AND DISCUSSION**

### **A. Understanding Learning Media**

The word media comes from the Latin word *medius*, which literally means "middle", "intermediary", or "introduction". In Arabic, media refers to an intermediary or messenger from the sender to the recipient. The term "media" is often associated or replaced with the word "technology", which comes from the Latin words "language" (art) and "logos" (science) (Lailiyah & Mardiyah, 2021).

In the context of teaching and learning, the definition of media in the teaching and learning process tends to be defined as graphic, photographic or electronic tools for obtaining, processing and reconstructing visual or verbal information. According to Gerlach and Ely, media is a graphic, photographic, electronic, or mechanical device for

displaying, processing, or explaining verbal or visual information (Pambudi & Makhrus, 2022). Meanwhile, according to Irpan Ghaffar and Muhammad Jamil, learning is an effort that gives rise to teaching and learning efforts, and learning is also an effort to educate students (Anwar et al., 2021). Ahmad Zayadi also expressed the same thing, that learning is an effort to teach something to someone or a group of people, but this effort is carried out through different strategies, methods and approaches to achieve a planned goal, he added (Assadi & Ubabuddin, 2023).

Learning can also be viewed as a teacher activity programmed in learning design which focuses on providing learning resources and involving students in active learning. In contrast to Mr. Shaikul Sagara who said that learning is a two-way street because learning is teaching students to apply educational principles and learning theories, and this is the main determinant of educational success (Siregar, 2020). Teachers themselves are educators, and learning is carried out by students or students. Meanwhile, in the learning process two activities are carried out simultaneously: educational activities (teachers) and student activities (students).

The learning process is a process of interaction between teachers and students and between students. Through the learning process, students grow towards human education as stated in the goals of education. In order for learning to take place effectively, teachers must be able to organize the learning process in a pleasant atmosphere. On the other hand, according to (Qamariyah & Nurhadi, 2021) learning media can be used to convey messages, stimulate students' thoughts, emotions, attention and will, as well as encourage a conscious, targeted and controlled learning process.

Islamic Religious Education Learning Media (PAI) is a medium that can be used to convey messages from the sender to the recipient in order to stimulate students' thoughts, feelings, interests and desires in the way necessary in the teaching and learning process. Referring to anything. Focus and effectively achieve learning objectives in Islamic Religious Lessons (PAI).

#### B. Understanding Information Technology

Richard W expressed his opinion regarding the importance of information technology and stated that information technology is "the processing and distribution of data through a combination of computers and communications" (Mazrur, 2023). Meanwhile, Eko Ganis said that IT is busy collecting and storing data. This technology uses a series of computers to process data and uses a network system to connect one computer to another computer as needed. Telecommunication technology is used to make data more widely distributed and accessible (Khojir et al., 2022).

Information This technology collects information for personal life, including information about health, hobbies, leisure and spirituality, including professions such as science, technology, commerce, news, business and professional associations. The development of information technology has encouraged a new way of life and e-life, a phenomenon where the large number of electronic necessities has a negative impact on daily life, a negative impact on everyday life appears. The Internet and information technology have become embedded in our daily lives and further development is expected to increase our productivity and work efficiency by enabling us to carry out various tasks quickly, accurately, and easily. Already embedded in our daily lives, and development It is further hoped that it can increase our productivity and work efficiency by enabling us to carry out various tasks with speed, accuracy and ease.

The importance of information technology in modern life cannot be overstated, with the information and communications technology sector at the forefront. Advances in information technology have given rise to several types of activities based on information technology, such as e-governance, e-commerce, education, and so on, all of which are electronic. Information technology has given birth to several types of activities based on information technology, all of which are electronic (Lailiyah & Mardiyah, 2021).

Although the Internet was originally used to facilitate research, correspondence, communication, and electronic information among students, faculty, and staff, it has

now developed into a major communication tool used by almost all members of society and has become a worldwide communication system that in Initially only used to facilitate research, correspondence, communication and electronic information between students, lecturers and staff, it has now developed into the main communication tool used by almost all members of society and has become a communication system throughout the world.

### C. Use of Information Technology in the World of Education

Information technology (IT) in the world of education refers to the availability of channels and equipment that can be used to broadcast educational programs. The use of IT in education has become commonplace in the United States over the last decade (Suyuti, 2022). This is one of the main pieces of evidence that Indonesia is a backward country compared to other countries in the world. Information provided via computers connected to the internet as the main media can make a significant contribution to the educational process.

This interactive technology is a catalyst for fundamental changes in the role of teachers, from information to transformation. This helps students learn faster, better, and smarter. Information technology is the key to a better future school model. There are many aspects that can be used as reasons to support the development and application of IT in the education sector with the aim of improving the quality of national education in Indonesia. One aspect is Indonesia's geographical location, with many scattered islands and often hostile terrain, which is usually proposed to support the development and application of IT in education.

IT is so powerful and based on distance learning capabilities that are not separated by space, distance and time, it is said to be the main driver of educational equality in the archipelago. To accelerate regional development, especially in the education sector, it is necessary to immediately introduce IT whose effectiveness has been recognized. The Krapyak settlement is one of the most advanced settlements in Pangunharjo Village. This progress is supported by several factors, including Yogyakarta's strategic geographical location, close to the city center and education centers. Circumstances can influence sociocultural attitudes and the economic status of society. The majority of Krapyak residents are Muslim (Hamidi, 2018).

At that time, before Mujahada was founded, there were several recitation activities which were attended by the younger generation, mothers and fathers, but these recitations failed to unite the group. Seeing this situation, Gus Hendal wanted to unite them in a forum called Jamiya Tarim Wal Mujahada "Padan Jagad" (JTMJP Finance Director Shaikhul Fattah) (Interview with, 6 January 2013). Information Technology (IT) in the world of education must mean the availability of channels and equipment that can be used to broadcast educational programs. The use of IT in education has become commonplace in the United States over the last decade (Ananda & Maemonah, 2022).

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Information technology is the key to a better future school model. ICT, or better known as ICT (Information and Communication Technology), is technology, engineering and technology related to the control and processing of information and its use, the relationship between computers and humans, as well as social, economic and societal problems, and various aspects of technology. processing (Suyuti, 2022).

Information technology includes everything related to processes, use as a tool, as well as manipulation and management of information. Communication technology now includes everything that involves the use of tools to process and transfer data from one device to another. Therefore, information and communication technology has a broad definition and includes all activities related to processing, manipulation, management

and transmission of information between media.

In using ICT, the benefits of this technology in terms of effective learning must be considered, such as knowledge acquisition, convenience and affordability both in terms of time and cost. At least, learning is more valuable with ICT than without ICT. The added value provided by ICT is breadth of coverage, timeliness, up-to-dateness and openness. This means that classroom learning based on this principle becomes more interesting and more arousing curiosity. Learning that is not interesting and stimulates curiosity is boring and has the opposite impact on learning. It is not surprising that the use of ICT maximizes student creativity. Children who are very creative are certainly different from children who are less creative. Therefore, the goals of ICT are aligned with the goals of education itself when used for learning.

The use of ICT does not actually hinder learning, but provides additional learning benefits. IT or ICT includes all technology that can be used to store, process, display and transmit information in the communication process (Assadi & Ubabuddin, 2023). Examples of applications of this technology include:

1. Computer Technology
2. Multimedia Technology
3. Telecommunications Technology
4. Computer Network Technology

Judging from the development of the situation, IT-based media was initially only used as an educational tool for teachers. However, the use of IT in the world of education is currently experiencing rapid progress. This development actually began around 1923 with the first discovery of the concept of visual education or teaching aids. Over time, the visual concept evolved into audiovisual aids that appeared on the market around 1940. In 1945, several name variations appeared, including "Audio". Video materials and audiovisual equipment. Further developments occurred around 1960 (Hayani et al., 2023). This conceptual shift is possible by applying a systems approach and development concepts to educational activities. These developments continue to this day, and ICT technology continues to change for the better.

In the era of globalization, the use of IT media is actually increasing rapidly. This played an important role in this development, especially with the advent of computers and the widespread use of laptops. Apart from that, the presence of an internet network makes it easier to access the internet. It can be said that the current learning process cannot be separated from IT. For example, searching for learning materials on the Internet, discussion processes using PowerPoint, and even communication using ICT such as email, Twitter and Facebook can be done (Nuswowati, 2018).

#### D. The Role and Function of Information Technology in PAI Learning

Technology in PAI learning refers to tools, methods used systematically in the PAI learning process by Islamic teachers or educators so that students can easily accept and study Islamic religious education material in their learning activities, or can be interpreted as a procedure. That has been completed, currently the use of information technology in PAI learning is starting to develop.

A variety of information technology systems can be used to improve learning, especially for PAI, although many PAI teachers are experts in ICT, their main use is for typing. Many PAI teachers are experts in ICT, but their main use is for typing. However, the use of ICT in education can be from a wider level. ICT in education can be expanded to a wider level. The use of ICT in PAI education is from ICT in PAI education is (Mansir et al., 2020):

1. Utilizing the power point program in the PAI learning process in class. With this program, teachers simply write down the important points of the material presented. In addition to teaching students to write, they can also watch audio and videos that accompany the material. For example, in the learning material with the theme "Faith in the Last Days", through this program students can not only gain material knowledge, but also be shown illustrations about the Apocalypse of Suga and Kubra.
2. Collect assignments via email from students.
3. Broadcast class discussions using mailing lists. Through Zoom Meeting, teachers can

create their own groups to communicate between classes or schools.

#### 4. Using live YouTube for learning inside and outside the classroom.

Using web vlogs for learning inside and outside the classroom. Compared with IT equipment, web video blogging is more complete. One of the advantages is that teachers can see their own work and ideas. A web vlog can be considered a teacher's personal newspaper. It's up to the teacher what they want to include in the paper. Regarding learning, teachers can upload all PAI learning materials to the website. Through this media, students can learn without having to be confined to the classroom. Includes study materials as well as practice questions, exam/test results, or other material related to PAI material.

Moreover, in terms of exam results, students and parents only know their own exam results, but do not yet know their friends' exam results. Students can view all exam results via webloh. This aims to ensure that students and parents can consult with subject teachers if they have questions (Mundiri & Zahra, 2017)

#### AND. IT Development in PAI Learning

Development is the process of changing design specifications into a specific physical form. Overall, orientation and learning activities must be designed in such a way that they achieve the expected goals. The design process begins with identifying problems or identifying learning needs and ends with identifying learning materials and strategies.

Meanwhile, the development process begins with selecting or developing learning materials and combining them into the designed learning strategy, followed by evaluating strategies and strategies to conclude that learning materials increase effectiveness and efficiency ( Sistem et al., 2010 ). If you look closely at the various theories mentioned above, it becomes clear that learning development is a process that includes design, production and evaluation.

The requirements for developing learning programs according to (Santoso, 2020) are:

1. Enables students to experience the learning process related to the goals they want to achieve
2. Choose your learning materials and resources.
3. Must be able to select and develop learning media that can support a deeper understanding of concepts.
4. We need to design learning interaction models that make students think and reflect.
5. Evaluation program design.

If you look closely at the various theories mentioned above, it becomes clear that learning development is a process that includes design, production and evaluation. Educational media is used to convey messages and lesson content and stimulate students' thoughts, feelings, attention and skills. Without educational media, learning effectiveness and educational quality cannot be achieved. Even with the availability of educational media, learning outcomes cannot be achieved without the ability to choose which media are most effective and efficient.

Various research findings show that the use of information and communication technology (ICT) is the most effective medium for achieving quality education at the beginning of the current era of globalization. ITC is a general term that refers to technologies used to collect, process and retrieve information in various forms. There are five perspectives regarding the role of ICT as a learning medium (Nuswowati, 2018):

- a. Media as Technology
- b. Media as a tool, tutor, and teacher
- c. Media as an Agent of Socialization
- d. Media as learning motivation
- e. Media as a mental tool for thinking and solving problems

## CONCLUSION

In developing an IT-based PAI learning model, several steps are taken, including initial identification or conducting preliminary research. The next step is product planning. Then strive to develop the product, provide instructions and guidance, and evaluate until the final step, namely the final revision of the test results. For the purpose of testing the PAI-IT model, training is carried out according to the syntax of the PAI-IT model.

This includes communicating learning objectives and preparing students with clear instructions in the Moodle program. Demonstrate knowledge or skills (students carefully read and study the material provided in the Moodle program. If students have difficulty understanding the material, they can be supported through direct teaching or discussion forums provided in the Moodle program (Students take quizzes and proficiency tests in the Moodle program) each electronic material provides opportunities for further training and application.

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