

Digitalization of PAI Learning Based on ICT Technology Integration with Multiple Intelligences Approach

Nur Ahmad*

*IAIN Kudus, Indonesia
ahmadnur@iainkudus.ac.id

Farandika Nanda Pratama

IAIN Kudus
farandika36@student.iainkudus.ac.id

Miftakhul Jannah

IAIN Kudus
mifjanah9@gmail.com

Abstract

The labeling of smart and dumb students has long been a part of education in Indonesia. Generally, students who are considered intelligent are synonymous with high test scores on their report cards, but this view is very wrong. It is important to emphasize early on that the intelligence characteristics of each learner are different and cannot be forced to be uniform. Moreover, with the presence of the technological era around us, PAI learning must be integrated with the available digital technology, whether we like it or not. Therefore, this study aims to analyze, describe, and explain how the digitalization of PAI learning is based on the integration of ICT technology with a multiple intelligences approach. This research uses a qualitative approach and library research method with data analysis techniques, namely descriptive analysis. The results show that the digitalization of PAI learning based on ICT technology integration is effectively applied to 9 types of multiple intelligences approaches by utilizing RPG interactive games, Quizzes, digital comics, etc. as model of digitalization of PAI learning. So that it can maximize the growth of students to become human beings who are responsive to technology in the future and can optimize their potential and talents.

Keywords: *Islamic Education Learning, ICT Technology Integration, Multiple Intelligences*

INTRODUCTION

Education is the main element in building an era. As the center of an era, of course there are many obstacles and challenges in the world of education. (Taqiyuddin dkk., 2019). Therefore, digitalization is an answer to overcome problems along with the times. Many efforts have been made by the government, but this is considered not optimal because there are still many teachers who apply traditional methods in the learning process at school. (Dewi dkk., 2021)

Not only one subject in school tends to use traditional methods. Of the many subjects available, almost all of them apply traditional methods, including PAI subjects. In addition, there are problems that can arise if the problems in the use of traditional methods are not addressed wisely, such as students who are considered smart and stupid and learning that is too centered on teachers so that the learning atmosphere becomes monotonous and boring. (Wijaya, 2023b) So that an academic from the Western world named John Holt argues that if this traditional method continues to be applied in this advanced era, then schools can be considered to kill the potential of their students because they have different interests and talents. (Bagir, 2019) This is what allows the emergence of a negative stigma that PAI learning emphasizes the memorization aspect only. (Wijaya, 2023b) Therefore, according to Thomas Armstrong, traditional methods applied in the modern era can lead to various assumptions. First, teachers tend to categorize students into smart and stupid. Second, teaching and learning activities feel monotonous and boring. Third, teachers can find it difficult to increase the enthusiasm of learners because teaching and learning activities in the classroom are less creative and not fun. (Amstrong, 2004)

If you realize it, humans are creatures that are equipped with advantages and disadvantages. Not only that, but humans are also equipped with intellectual, emotional and spiritual intelligence that makes humans perfect beings. If these three intelligences are optimally developed, it will encourage them to carry out positive activities in everyday life. Thus, the school must also consider the strengths and weaknesses of students. Learners should not be underestimated because of low grades and considered stupid. It should also be emphasized that the indicator of students' intelligence is not only measured by intellectual aspects, but also other aspects that stand out in them. (Setyawan, 2014) Therefore, an expert named Howard Gardner created a theory named multiple intelligences or multiple intelligences. Multiple Intelligences is a theory that views that humans have various intelligence potentials. (Hernowo & Nurdin, 2004)

This concept was first discovered in 1980 when Gardner was the leader of Project Zero at Harvard. There are nine kinds of human intelligence, including mathematical logic, linguistic, musical, interpersonal, intrapersonal, kinesthetic, visual, naturalist, and existential intelligence. (Gardner, 2013) This concept ultimately

has a significant impact on education. This is evidenced by the number of schools that began to integrate the concept of multiple intelligences learning system. The purpose of applying this concept is to optimally explore the potential of students and not assess students based on the scores they get alone. (Suyadi, 2020) The existence of the concept of multiple intelligences also provides ideas for academics to develop methods in accordance with the nine intelligences proposed by Gardner. (Fikriyah & Aziz, 2018)

The concept of multiple intelligences also needs to be applied in Islamic education learning at school. This is because Islamic education aims to create perfect humans and have broad insights as leaders on earth. (Dinata, 2020) To form a perfect human being, the potential and talents in humans need to be developed according to their characteristics. Therefore, the solution to this problem is to integrate technology in classroom learning. (Anwar dkk., 2022) This is due to the rapid progress of the times and the world of education continues to develop. Based on this, the author tries to examine more deeply about PAI learning with technology integration to increase the effectiveness of teaching and learning activities.

Therefore, in this study the author discusses "Digitalization of PAI Learning Based on ICT Technology Integration with Multiple Intelligences Approach." Thus, this study aims to 1) describe the digitalization of PAI learning media based on ICT technology integration, 2) describe the implementation of PAI learning based on ICT technology integration with multiple intelligences approach, and 3) describe the effectiveness of PAI learning based on ICT technology integration.

The author chose the elementary school level because at that age students experience a golden period of growth. Therefore, learning PAI with a multiple intelligences approach is important to teach because it can maximize the growth of students to become human beings in the future and encourage their potential and talents. (Hidayat, 2021)

METHODS

According to Muhammad Ramdhan, the research method is a method used in obtaining data based on the purpose of certain interests. (Ramdhan, 2021) There are five characteristics of the method, including open, objective, experience-based, structured, and potentially predictable results. (Morissan, 2017) This research has the aim of getting answers to the problems found so that later it can contribute to science.

The type of research that forms the basis for this study is qualitative research with a focus on descriptive analysis. The main objective is to investigate how the integration of ICT technology affects the digitalization of PAI learning. The qualitative approach is an attempt to understand the phenomena or events experienced by the research subjects, such as their actions, interests, and motivations using observations

or interviews. The result is descriptive analysis expressed in verbal form. The purpose

of qualitative research is to present a picture of the research subject interpreted through stories, illustrations, and other methods so as to help reveal the meaning of existing events and be able to describe the meaning arising from the phenomenon. (Wijaya, 2023b)

The type of research in this writing is qualitative which focuses on descriptive analysis with the aim of analyzing, describing, and describing the digitalization of PAI learning based on ICT technology integration. The author also uses a library research model because the main data used as a reference to solve the problems in this study come from literature such as books, articles, and journals. (Evanirosa, 2022) In addition, literature studies can also answer the problems being researched by the author and contribute various findings that can be used as solutions to the problems being studied. (Zed, 2008)

RESULTS AND DISCUSSION

1. Digitalization of Islamic Education Learning Media Based on ICT Technology Integration

Media is a set of tools that can facilitate a job or activity. Media is also defined to disseminate information widely. When associated with the world of education, especially in teaching and learning activities in the classroom, media is a tool that supports learning and can connect teachers and students. Learning media can also be interpreted as a tool to disseminate information in the form of learning materials that can attract the attention of students to cause a thinking process that affects their learning process. Based on this explanation, learning media can be interpreted as a means to convey information between teachers and students that encourages the learning process to be more effective and achieve learning objectives. (Wijaya, 2023b)

The development of technology in various sectors also affects education in Indonesia, especially in the use of learning media. The term e-learning media is familiar in this era. E-learning is a media designed through computer networks that can be accessed through students' mobile phones. Through technology as learning media, the learning process in the classroom can be fun so that the interest, motivation, and willingness of students to learn can increase and the learning atmosphere becomes more interactive. This e-learning system is one of the teaching innovations that can be done by an teachers based on ICT technology integration. (Yuliana, 2020)

E-learning, which is part of the learning media based on the integration of digital ICT technology, can now be applied by utilizing social media. The following are media that can be used in the digitalization of PAI learning based on ICT technology integration:

- a. WhatshApp Group

WhatsApp application is a multifunctional application that can be used practically

by utilizing a mobile phone. There are various chat functions in this application, one of which is group chat. A suitable learning model to be applied through WhatsApp group media is problem-based learning. Through this model, students can learn independently and improve their thinking skills.. (Utomo, 2018)

b. Google Form

Google form is part of the Google Docs service. This application is suitable for teachers and students in supporting the learning process such as filling out forms, surveys, and creating or teaching quizzes. (Wijaya, 2023b)

c. Youtube

Snelson argues that YouTube is the most popular video sharing app in the world today. Through YouTube, users can watch, upload, discuss and explore videos for free. YouTube can be effectively used as a learning media because it has a download feature. Through this feature, videos related to learning can be saved on each cellphone and can be accessed without the internet so that students can play them repeatedly to learn according to their needs. (Wijaya, 2023b)

d. Google Classroom

Google classroom is an application that is connected to Gmail, Drive, Hangout, YouTube, and Calendar. This application facilitates learning activities because it provides various services that support that learning activities do not have to be in class and can learn anywhere and anytime. This application can also improve the performance of teachers, save time, and become a communication tool for teachers and students. (Wijaya, 2023b)

e. Quizizz

The utilization of Quizizz as a learning media can improve students' learning competence and motivation. Through Quizizz, learning can be fun and can be used as a learning evaluation material. This application supports the implementation of learning at various levels and subjects, especially in PAI learning. (Aini, 2019)

f. Game Edukatif di Play Store

Educational games are applications that integrate learning materials in the form of games. This educational game application can stimulate thinking and increase students' concentration and motivation to learn. In some studies, educational games can encourage users to learn material that they did not want to learn before despite spending a lot of time. Therefore, the use of educational games as learning media needs to be applied in PAI subjects because the application can be downloaded through the Play Store and played anytime and anywhere while using a cellphone. (Zahir dkk., 2022)

2. Implementation of Digitalization of Islamic Education Learning Based on ICT Technology Integration with Multiple Intellegences Approach

Howard Gardner is an expert who views that humans have many abilities that cannot be measured based on standardized scores alone. For him, there are no smart or stupid children, but rather children who have dominant abilities in one or several intelligences. Therefore, he developed a theory of multiple intelligences. (Suarca dkk., 2005). The theory developed by Gardner is trying to be applied by

various educational institutions today. The application of this concept aims to enable schools to support the potential of students and not underestimate students.

Recently, an opinion has emerged that PAI subjects are considered boring. To break this opinion, the concept of multiple intelligences developed by Gardner needs to be applied in PAI learning. This can turn previously boring learning into interesting and fun learning. Not only that, to form a pleasant learning atmosphere, teachers also need to integrate technology in PAI learning. (Wijaya, 2023a) Below are the kinds of implementation of digitalization of PAI learning based on ICT technology integration with multiple intelligences approach:

a. Math Logic Intelligence

Aisyah argues that mathematical logic intelligence is the ability to recognize shapes and colors to improve the ability to process numbers and use logic. Meanwhile, Gardner argues that mathematical logic intelligence is the ability to understand the surrounding situation with mathematical calculations and cognition or logical reasoning. (Tirta & Buyung, 2022) This intelligence is closely related to learning by combining numbers, using logic, and making hypotheses or estimates.

In classroom learning, teachers can improve students' mathematical logic intelligence by using the technology-based Problem Based Learning (PBL) method. If it is associated with PAI learning, then an teachers can integrate technology in zakat material through videos or android-based games. By integrating technology in the learning process, students can understand zakat material in a fun way so that the logical intelligence of students on zakat material can increase.



Picture 1 (Animated Learning Video on Zakat)

b. Linguistic Intelligence

Arif Rochman argues that linguistic intelligence is the ability to process words in both oral and written form. Meanwhile, Armstrong argues that linguistic intelligence is the ability to combine words well. Based on the opinions of these two experts, linguistic intelligence can be interpreted as a person's ability to process ideas that are communicated through various sentences. This intelligence has an important role because it has a close relationship with communication skills in everyday life. (Rahmawati, 2016)

When associated with PAI learning, teachers can utilize Artificial Intelligence (AI). In addition, teachers can also integrate RPG (Role Play Game)

based interactive games and VR (Virtual Reality) based learning applications. Such learning is effective for elementary school children because of their tendency to enjoy learning while playing. Teachers can also improve the linguistic

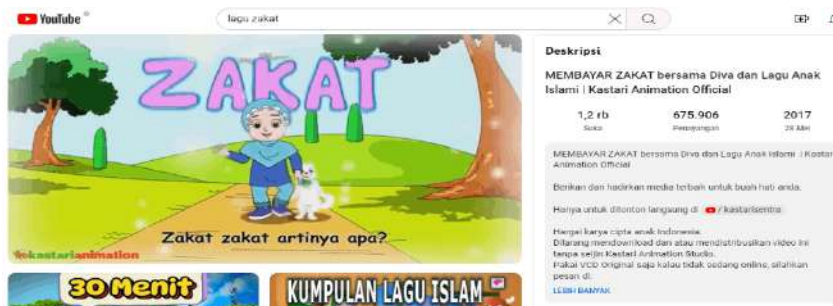
intelligence of students through applications in the PlayStore such as Zakat Belajar: Solite Kids.



Picture 2 (Zakat Belajar: Solite Kids)

c. Musical Intelligence

Musical intelligence is the ability to think, listen, recognize and compose music. In general, children who are dominant in musical intelligence have a high sense of sensitivity to the world of music. A suitable strategy for children with musical intelligence is to use songs, tones, or rhythms in learning activities. (Suarca dkk., 2005) Therefore, PAI teachers, can use music game applications or music learning videos related to PAI material. This can develop and improve students' musical intelligence. For example, by playing and showing various zakat songs to students related to zakat learning materials at school.



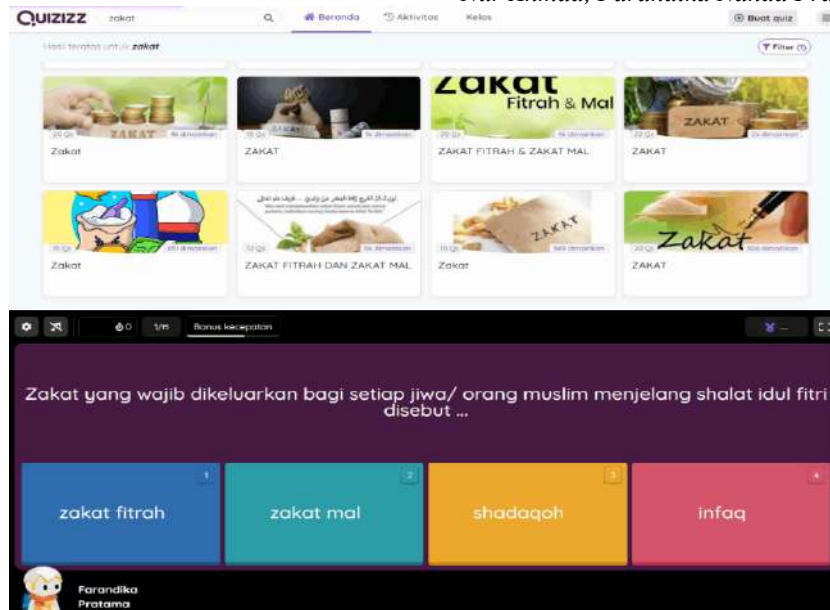
Picture 3 (Zakat Song)

d. Interpersonal Intelligence

Interpersonal intelligence can be defined as the ability in humans to empathize and communicate with others. Interpersonal intelligence can also be defined as the ability to build good relationships and maintain social relationships. This intelligence has an important role for students, as it impacts their ability to understand and interact with the surrounding environment. (Kusuma & Dafit, 2023)

Its application in PAI learning is by using the methods of group work, learning together, and collaboration. In addition, to improve learners' interpersonal intelligence, teachers can use game-based learning methods and utilize technology such as utilizing Kahoot or Quizizz applications. Through

these methods, students can help each other and work together so that their interpersonal intelligence can develop well.



Picture 4 (Quizizz)

e. Intrapersonal Intelligence

Intrapersonal intelligence belongs to the intelligence of the inner world. The main component in interpersonal intelligence is the ability to understand oneself, which includes strengths, weaknesses, moods, motivation, and self-introspection. (Maitrianti, 2021) Its application in PAI learning is to provide motivation, affection, and reflection so that students can understand themselves. This can be supported by utilizing the computer lab as a space for learning. Here, teachers can give students the freedom to search for learning resources on the internet according to what they like, for example with comics, eBooks, videos, or other learning resources according to their respective learning styles. This can encourage learners' independence and improve their interpersonal intelligence.



Picture 5 (Learning with Computer Lab Facilities)

f. Kinesthetic Intelligence

According to Gardner, kinesthetic intelligence is an ability related to the coordination of body and mind movements. Meanwhile, Lewin argues that kinesthetic intelligence is a person's ability to build relationships between physicality and thought. Based on these two opinions, kinesthetic intelligence

can be interpreted as a person's ability to process information through thoughts and gestures. (Mahardika dkk., 2017) To improve kinesthetic intelligence,

teachers can utilize YouTube as a learning medium. For example, in the zakat material, the utilization of YouTube can display interesting, animated videos. In addition, teachers can also utilize PPT and LCD Projectors to maximize learning in the classroom.



Picture 6 (Interactive PPT on Zakat)

g. Visual Intelligence

Visual intelligence is the tendency a person must combine ideas and abstract thinking. In this case, someone who has a tendency to visual intelligence can remember shapes, lines, colors, and apply them in two or three-dimensional form. (Zahro' dkk., 2022) When associated with PAI learning, technology can be integrated using video, mindmap, and ppt media to encourage students' motivation in learning because the PAI materials taught can be visualized well through designs and photos and students' visual intelligence can increase.



Picture 7 (Mindmap of Zakat Fitrah)

h. Naturalistic Intelligence

Gardner argues that naturalistic intelligence is the ability to determine and categorize elements in the environment. A person who is dominant in naturalist intelligence has a calm feeling when learning in nature. (Djumat dkk., 2023) Its application in PAI learning is to change the concept of learning which is usually in the classroom to the environment around the school. In addition to learning in nature, teachers can also utilize projectors to present objects that cannot be presented directly. Therefore, teachers can also use global zakat games. This game is designed by teaching the subject matter through a fun maze game. In addition, students can also be trained naturally about the direct practice of zakat procedures to the surrounding environment.



Picture 8 (Global Zakat Game)

i. Existential Intelligence

Existential intelligence is the ability to place oneself in various aspects such as the meaning of life, fate, and the experience of loving and being loved. Its relationship with PAI learning is essentially inseparable from the concept of tawhid. Therefore, teachers must optimize students' awareness in understanding and recognizing the existence of Allah SWT. above all. (Syarifah, 2019) In its application, teachers can teach material using digital comic media and audiovisual media. This can make students interested so that they become focused and learn the material in depth.



Picture 9 (Digital Comic about Zakat)

3. The Effectiveness of Digitalization of Islamic Education Learning Based on Digital ICT Technology Integration with Multiple Intellegences Approach

Digitalization of PAI learning based on ICT technology integration is one of the efforts to improve Indonesia's education system. Learners are invited to utilize various applications available through mobile phones, computers, and the internet. By utilizing these media, learners can learn comfortably and flexibly without any limitations in terms of space and time. In this situation, learners can listen to the material more efficiently through their respective cellphones or laptops so that they can learn comfortably and express their questions and opinions without feeling awkward. Based on research conducted by Hamidah Sadikin, learning that integrates digital technology is learner-oriented with the aim of developing a sense

of responsibility and encouraging independence in the learning process. This ICT technology integration-based learning encourages learners to manage learning, evaluate assessments, organize materials, maintain motivation, and increase interest in learning independently. (Sadikin, 2020)

Many things affect the success of learning with integrated ICT technology, but the most crucial is its effectiveness. More clearly, there are three things that affect the effectiveness of PAI learning based on ICT technology integration with multiple intelligences approach, including: First, the network setting should be easily accessible to enable the communication process between teachers and learners. Second, the personality of the teachers and the implementation of educational guidelines affect digital learning. When teachers provide materials with enthusiasm, the learning process becomes active and fun. Third, learners' characteristics related to learners' ability and discipline level.

Furthermore, research conducted by Ramli shows that the integration of digital technology in PAI learning has been implemented effectively. This technology has presented a creative and innovative way of learning to obtain quality educational outcomes. Teachers can introduce ICT technology in the form of applications to their learning because the technology has various benefits such as in the design of technological teaching materials. The combination of technology with this teaching material can provide high motivation to students. This technological design aims at convenience and efficiency and is able to innovate and even transform learning, even in the context of PAI which usually leads to descriptive rather than textual. (Ramli, 2020)

The use of technology and applications in PAI is in line with the general view of technology, which is that technology leads to innovative and transformative directions in education with the aim of improving the quality of PAI learning in the future. This is certainly appropriate in the context of PAI, which argues that Islam must respond to the good things that arise in the academic context.

Islamic science needs changes and developments that recognize the existence of technology-based learning designs and methods because it needs the right steps and is in line with the goals of Islamic education. Experiencing the process of designing Islamic Education learning programs that integrate digital technology provides various benefits, including real examples of how digital applications can facilitate the academic community when designing learning based on digital literacy in the realm of information dissemination and application empowerment. This technology has provided various benefits, including the advantages of PAI learning from new learning resources and effective methods in obtaining and disseminating learning content. From the development of learning literacy literacy and the combination of cooperation between academics as an opportunity to get multiple benefits far greater than conventional PAI learning. (Wijaya, 2023b)

CONCLUSION

Learning media is a set of tools that can be used by teachers in delivering learning materials with the aim that there is an increase in students related to their interest and motivation to learn. The application of digitalization of PAI learning media based on ICT technology integration with multiple intelligences approach is one way to appreciate and accommodate the differences in intelligence that exist in each learner such as e-learning media that affects the interest, motivation, and willingness of students in learning. Currently, there are many media that can be used to support the digitalization of PAI learning including WhatsApp Group, Google Form, YouTube, Google Classroom, Quizizz, and Educational Games in Play Store.

The implementation of digitalization of PAI learning based on ICT technology integration can be applied with a multiple intelligences approach that is expected to make learning not monotonous and able to maximize the potential of students. The goal is that learning does not limit the freedom of learners in developing according to their innate potential so that there is no assumption that learners are stupid or smart but have a dominance of excellence in one or more than one type of intelligence. There are nine types of multiple intelligences including mathematical logic, linguistic, musical, interpersonal, intrapersonal, kinesthetic, visual, naturalist, and existential that can be utilized through animated videos, educational games, mind maps, nature tours, digital comics, etc.

In fact, PAI learning based on digital ICT technology integration can be said to be effective because there is satisfaction and comfort for students from flexible learning that is not limited by space or time. Learners can also express questions and opinions without feeling awkward and increase independence in learning.

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