TECHNOLOGY INNOVATION OF ISLAMIC RELIGIOUS EDUCATION LEARNING IN THE FIRST MIDDLE SCHOOL (SMP)

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Abstract

This article deals with Islamic Religious Education (PAI) learning technology innovation at the junior high school level. The focus of the problem studied is related to what is innovation, technology and how is PAI's learning technology innovation at junior high school level. The results showed that the form of PAI learning technology innovation at junior high school level included; educational innovation, technology, learning technology, development of learning technology, web-based learning (e-learning), as well as the internet as a source of learning with an approach to developing inquiry and discovery learning methods. The effectiveness of this learning technology innovation makes the subject matter more understood by students, because the material from teaching material is discovered and practiced by students themselves. While the response of students is very enthusiastic and positive. The weakness of this learning technology innovation is that there are obstacles in operating learning technology because not all students have a representative media in implementing technology-based learning (online).

Keywords: Technological Innovation, Learning Islamic Religious Education
A. Introduction

Some learning approaches can be packaged in learning programs using computer media or CAI (Computer Assisted Instruction), such as drill and practice, simulations, problem-solving, tutorials, and games. Learning by using computer media is considered appropriate because it has several advantages, namely: (1) can increase student motivation, (2) provide information about errors and the amount of learning time and time to work on questions to students, (3) overcome weaknesses in group learning, (4) train students to be skilled in selecting the desired parts of the lesson content, (5) useful for students who are usually less able to follow conventional learning methods, (6) reduce shame in the learning process, (7) support individual learning, (8) allows students to get to know and be familiar with computers, (9) create learning that is enjoyable, and (10) computers are effective delivery media for learning.

Islam is a religion that does not close itself to the rapid development of the times including technology, but instead, Islam is very flexible and even encourages its people to live dynamically and develop better along with the development of the era as long as it is based on faith and piety.

Based on the effectiveness of the learning technology above and with the openness of the teachings of Islam in accepting positive things, then it should be that PAI learning in schools especially the junior high school level can take advantage of this media and start changing conventional learning models into technology-based. Therefore PAI teachers in schools are required to be able to create relevant learning technology innovations and apply learning models with a scientific approach (scientific approach), a student-centered learning approach (student center), learning that emphasizes authentic assessment (authentic evaluation), applying the discovery learning model (discovery learning), project-based learning (project-based learning) and problem-based learning.

The results of the development of e-learning products in the form of online learning management through moodle application software version 2.4 a few years ago with the address http://etk.j.web.id. The feasibility of this version of e-learning products was assessed on several aspects in both categories, including; in the aspect of media get a value of 3.88 (good category)\(^1\), in the material aspect get a value of 3.88 (good category), and the aspect of student responses get a value of 3.64 (good

category). E-learning with the cognitive learning approach to multimedia theory effectively improves student learning outcomes. Technology mobility is growing rapidly so that the moodle application is now progressing. Online learning with technological innovations this year uses the version 3.8.1+ moodle application which was released on 30 January 2020 ago at http://moodle.id.uptodown.com².

B. Method

The approach used in this research is a qualitative approach using observation and documentary data collection techniques, while the data analysis technique uses content analysis. The type of data used is secondary data. The study was conducted by identifying the problems that occur in the learning activities of PAI at the junior high school level, then the data are collected, analyzed, and concluded as needed which may be a solution to the problem in the form of a development strategy using library studies.

C. Finding and Discussion

Islam is a religion that does not close itself to the rapid development of the times including technology, but instead, Islam is very flexible and even encourages its people to live dynamically and develop better along with the development of the era as long as it is based on Faith and Taqwa.

Based on the effectiveness of the learning technology above and with the openness of the teachings of Islam in accepting positive things, it should be that Islamic Religious Education (PAI) learning in schools can take advantage of this media and begin to change conventional learning models into technology-based. Therefore PAI teachers in schools are required to be able to create relevant learning technology innovations and apply learning models with a scientific approach (scientific approach), a student-centered learning approach (student center), learning that emphasizes authentic assessment (authentic evaluation), applying the discovery learning model (discovery learning), project-based learning (project-based learning) and problem-based learning³.

² http://moodle.id.uptodown.com
The learning system is implemented through a personal computer (PC) or laptop connected to the internet network connection. Educators can do learning together at the same time using groups on social media such as WhatsApp (WA), telegram, Instagram, zoom applications, or other media as learning media4. Thus, educators can ensure students participate in learning at the same time, even in different places. Educators can also provide measurable tasks in accordance with the objectives of the material delivered to students.

Various learning media applications are already available, both government and private. The government issued a Minister of Education and Culture Circular Number 9/2018 concerning the Utilization of Learning Houses. The private sector also offers online tutoring such as the teacher’s room, Zenius, Klassku, Kahoot, and others.

These accesses can be utilized to develop knowledge and insight. It is very necessary to improve the quality of human resources (HR). The success of the country’s development one of the benchmarks is the success of education.

The teacher or lecturer is not the only defining milestone. This is a serious challenge for teachers, lecturers, and parents. Not a few parents even complained about distance learning media online (internet). Especially for parents who work from home (WFH), must continue to accompany their children, especially children who are still at an early age. This is considering that technology has not even been introduced in the use of learning media, such as laptops, gadgets, and others. Especially early childhood to high school have not evenly distributed the availability of technical facilities as teaching and learning media in schools. Although most of them are already familiar with digital, the operational side has not been optimally applied in the learning media5.

Also, several learning approaches can be packaged in learning programs using computer media or CAI (Computer Assisted Instruction), such as drill and practice, simulations, problem-solving, tutorials, and games6. Learning by using computer media is considered appropriate

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**LEARNING TECHNOLOGY OF ISLAMIC RELIGIOUS EDUCATION**

Islamic Religious Education (PAI) is one of the subjects in various levels of schools including tertiary institutions requiring effective and dynamic strategies and techniques in its delivery to provide ease of understanding for students. One of the developments of strategies and techniques in learning PAI is the learning technology innovation for the PAI subjects.

In the introduction above it has been mentioned that Islam is flexible, does not close, and limits itself from the times. This is based on pieces of the Prophet's words as follows:

انتم أعلم بأمور دنياكم (رواه مسلم)

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It means: "You know more about your world affairs". (H.R. Muslim).

This hadith is contained in Saheeh Muslim (1366) included in the chapter with the title: "Chapters Must Follow the Words of the Prophet sallallaahu alayhi wa Sallam in matters of Shari’ah and what the Prophet sallallaahu alaihi wa Sallam said about world life based on opinions", and this is a very careful compilation of chapters.

The above hadith portion of the Prophet explains that the Prophet Muhammad did not limit world affairs to his friends and people while the world affairs were beneficial, especially those world affairs were to enhance learning in education through technological innovation. This means that it is highly recommended for the benefit of the learning process in the world of education.

Learning technology is defined as a part (subset) of educational technology because instruction (or learning) is part of education that is directed (purposive) and controlled (controlled) only.

**LEARNING OF ISLAMIC RELIGIOUS EDUCATION BASED ON SOCIAL MEDIA ONLINE AND WEB (E-LEARNING)**

Islamic Religious Education Learning by using online media, especially social media on the internet, Facebook, Instagram, and website/blog has been very rapid in various parts of the world including Indonesia. Social media is a forum to facilitate communication between users. This is the same as what is written on the Wikipedia site which explains that social media is online with its visitors being able to participate in, share, and so on. Even with a relatively long distance, someone will be able to connect with other people with a short time through social media.

Jaelani, A. et al, (2020:8) stated that social media users in Indonesia in 2019 are as follows:

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The site explained that social media users in Indonesia amounted to 56% active users of the total population. This is a sizeable number of even more than half of the people in Indonesia using social media. Islamic Religious Education (PAI) certainly wants and craves active learning. Learning based on the Koran and Hadith is certainly considered necessary and mandatory to learn. What is feared is that PAI learning sinks with the rise of social media which is now claiming the beauty of student activity.

One of the most social media users is the Facebook social network. Facebook is a social networking service based in California, United States. This was stated on the Wikipedia site that Facebook is a social media service that is felt by many users themselves. Most people will publish something in a post on their Facebook account which is usually called status. In a series of time that is not too long, in a Facebook homepage will bring up a new post that is increasingly changing minutes.

In 2019, Indonesia has a population of 267 million. The comparison is between the population and the number of Facebook users.

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Nearly half the population in Indonesia is a Facebook user. Of course, this is a number that is considered large enough for one social media in Indonesia, namely Facebook. That's only for one social media. What an extraordinary number. At the very least, from the above data exposure, it can be illustrated that Facebook users in Indonesia have a sizable amount. This means that social media like Facebook is quite popular with many people as evidenced by the number of social media users themselves.

The connection with this article is that there are several things that PAI teachers need to do regarding the use of Facebook social media to keep the learning going.

In addition to Facebook, social media with quite a lot of users is Instagram. Instagram is not the word we hear. Instagram, is a social service with photo and video sharing content which has quite a lot of users lately. According to Wikipedia, Instagram is an application for sharing photos and videos on social networks. Instagram is used by most people to publish something, whether it's a product offered or some kind of personal video upload.

Instagram users in Indonesia reached 53 million users. This is a fairly large number, but it is not comparable to Facebook.
The picture above explains that Instagram has a brand that is well known in Indonesia. Most of them are from teenagers to adults.

The time needed by a PAI teacher to teach in class is only a few moments. But with social media like Instagram, you can teach according to the time you want.  

**Web-Based Learning Concepts (E-Learning)**

Web-based learning is a learning activity that utilizes website media that can be accessed through the internet network. Web-based learning or also known as "web-based learning" is one type of application of electronic learning (e-learning). E-learning is a process and activity of implementing web-based learning, computer-based learning, virtual classrooms, and/or digital classrooms.

**The characteristics of e-learning are as follows:**

*Interactivity;* the availability of more communication channels, either directly (synchronous), such as chat or messenger or indirectly (asynchronous), such as forums, mailing lists, or guest books.

*Independence;* flexibility in aspects of providing time, place, instructors, and teaching materials. This causes learning to be more centered on students (student-centered learning).

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Accessibility; learning resources become more accessible through distribution on the internet network with wider access than the distribution of learning resources in conventional learning.

Enrichment; learning activities, presentation of lecture material, and training material as enrichment, allows the use of information technology devices such as video streaming, simulation, and animation.

Functions and Benefits of Web-Based Learning

Web-based learning can be fun learning, has a high interactivity element, causes students to remember more subject matter, and reduces operational costs that are usually incurred by students to attend learning (for example, allowance/school transportation costs).

Due to its virtual nature, web-based learning is considered to have given the flexibility to the activities of accessing learning material.

Principles of Web-Based Learning

At least the principles that must exist in web-based learning are\(^\text{12}\):

Interaction

In a learning environment, interaction means the capacity to talk both between participants, and between participants and instructors. Interaction not only provides human relations but also provides content connectivity, where everyone can help one another to understand the material content by communicating.

Dependency

Dependence in question is how students easily use the web. There are two important elements in this principle of dependency, namely consistency, and simplicity. The point is how this web-based learning developer creates a consistent and simple learning environment, so students do not experience difficulties both in the learning process and in navigating content (material and other learning activities).

Suitability

Relevance is obtained through accuracy and convenience. Every information on the web should be made very specific to increase the understanding of learners and avoid bias. Placing relevant content in the right context at the right time is an art form in itself, and little e-learning development has succeeded in making this combination. This involves

aspects of the effectiveness of the content design and the dynamics of search and placement of content (material).

**Utilization of E-learning for Learning**

"E" or the abbreviation of electronics in e-learning is used as a term for all technologies used to support learning efforts through internet electronic technology. The internet, intranet, satellite, audio/video tape, interactive TV, and CD-ROM are some of the electronic media used in learning that can be delivered synchronously (at the same time) or asynchronously (at the same time). Learning and learning materials delivered through this media have text, graphics, animation, simulation, audio, and video. He must also provide facilities for 'discussion groups' with professional assistance in his field.

The difference between traditional learning and e-learning, which is the ‘traditional’ class, teachers are considered as knowledgeable people and are assigned to channel knowledge to their students. While in learning 'e-learning' the main focus is students. Students are independent at certain times and are responsible for their learning. The 'e-learning' learning atmosphere will 'force' the student to play a more active role in the learner. Students make the design and search for material with their efforts and initiatives.

**Development of E-Learning Models**

There are three possibilities in the development of internet-based learning systems, namely web courses, web-centric courses, and web courses. *The web course* is the use of the internet for educational purposes, where students and lecturers are completely separate and there is no need for face-to-face meetings.

*The web-centric course* is the use of the internet that combines distance learning and face-to-face (conventional). Some material is delivered via the internet and some through face-to-face. *The web-enhanced course* is the use of the internet to support the improvement of the quality of learning done in class.

**E. Conclusion**

Islam is a religion that is not old-fashioned (static). This means that Islam is dynamic seen from its openness in all fields which provides

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benefits to the people. Islam does not close and limits itself to the rapid development of the times, Islam is very flexible, even encouraging its people to live forward and develop better during the digital era and technological literacy during this time based on Faith and Taqwa, including the current pandemic situation.

In the position of education, especially in junior high school level, technology has not yet occupied a meaningful position on our educational stage, the world continues to change with all its new demands. Changing demands for human skills are in line with the growth of various types of new jobs. There is a new tendency in the evolution of knowledge that is increasingly converging as a result of various types of new jobs that require multidisciplinary skills, and almost no more work that requires specific skills solely. The tendency of science and technology to develop is increasingly converging, various branches and fields of science interact and integrate and give birth to new convergences of knowledge and technology. This means that educational institutions are required to make comprehensive change efforts that do not sufficiently rely on the new paradigm of education. The use of a new paradigm as a framework for curriculum innovation and learning is the most important part of the effort towards comprehensive change. A comprehensive change will only take place if technological and vocational learning innovations are carried out using several new paradigm learning indicators. Indicators of learning innovation with a new paradigm include a variety of substantive things about the nature of learning, namely (1) changes in learning vision towards, (2) characteristics of learning tasks, (3) learning models and strategies, (4) measurement of learning outcomes, (5) learning context, (6) grouping patterns, (7) the role of the teacher, and (8) the role of students.

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