



Learning Innovation in Islamic Religious Education Using Information and Communication Technology Amid Science and Technology Transformation According to the Association for Educational Communications and Technology

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Abstract. The development of technology and science at this time is already getting more advanced, this can be seen from the many innovations in the world of education in the current era, especially learning is constantly experiencing changes by keeping up with modern developments. Therefore, the current technological advances have demanded innovation in learning, i-technological progress must be utilized as best as possible by educators, especially Islamic religious educators. The utilization of technology in the learning process becomes a necessity so that the learning process is not stagnant and rigid. Utilization or innovation in Islamic religious education must be carried out immediately, especially in learning methods. The purpose of this research is to provide descriptions of technology and innovation in education so as to increase the success of learning Islamic education. The method used by researchers here is a qualitative method and the results of this study are that innovation in Islamic religious education can be carried out by utilizing information and communication technology such as power point, internet, e-books, and games.

Keywords: Innovation · Islamic education · Technology

1 Introduction

Education is an effort to foster and develop the human personality from both spiritual and physical perspectives. Some experts also argue that education is a process of changing one's attitude and behavior through teaching and training. According to Lingered, education is an effort to influence and provide protection to help students solve their problems without others' assistance. Education allows one to be more mature in life. Education also has a major influence, including eradicating illiteracy, providing skills, mental abilities, and so on [1].

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Education is an important instrument to ensure the achievement of learning objectives based on indicators compiled according to the needs of students, including cognitive, psychomotor, and affective competencies. According to Rohman and Marimin, the success of students is an indicator of the teacher's success in the process. Implementation of learning must be well planned to provide the best service for students. One of the supporting aspects of achieving learning objectives is the use of learning media following the time.

Along with current technological developments, some aspects are affected, one of which is the educational setting. We cannot avoid technological developments because this is the transformation era following scientific advancement. Technological developments in education provide many benefits for educators to do learning easily as an educator way of teaching with currently developing technology. Technological developments are also very influential in the world of Islamic religious education, in which the implementation of Islamic religious education still uses traditional methods. Therefore, this is very influential in the process of successful teaching and learning in schools.

Therefore, technological developments should be of concern in Islamic religious education as a breakthrough in the teaching and learning process. Attaining this goal requires synergy between teacher and students, both of whom need to understand educational technology beforehand. This is so that technical and personal problems do not occur. Because of the current rapid development of technology, many cannot pace themselves or lack updates on either side. Especially at this time, it is not uncommon to find students who are more proficient in technology than the teachers so this results in delays in learning in the current era of technological development. Thus, this research discussed educational technology that educators need to understand and their innovations in learning Islamic religious education to be more effective, creative, and not monotonous or traditional.

2 Literature Review

Educational technology, in English terms Instructional Technology, is a communication medium that is growing rapidly and can be applied in education. Another opinion suggests that educational technology is the development, application, and assessment of systems, techniques, and tools to improve and enhance the human learning process [2].

The definition of educational technology needs to be seen from various aspects, namely: theoretical aspects, field aspects, and professional aspects. When viewed from a theoretical aspect, educational technology is a set of ideas and principles on how education and learning should be carried out using technology. Meanwhile, the aspect of the field of work views educational technology as the application of ideas and theoretical principles to solving concrete problems in the field of education and learning. From the professional aspect, educational technology is perceived as a profession, i.e. a certain implementing group that is organized fulfills certain criteria, has certain tasks, and joins to form a certain part of that field [3].

The meaning of educational technology as a field of work includes three elements: the growth and development of innovative learning systems, the use of communication and information technology, and learning technology for human resource development.

The meaning of educational technology as a profession develops towards increasing expertise, professional recognition, and the development of professional organizations.

From the aforementioned statement, it can be drawn from one aspect, namely the field aspect that it can also be interpreted as the existence of a technology-based learning system or the use of technology for learning that can contribute to improving the quality of learning in Islamic religious education [4].

Islam respects human reason; therefore, in Islam, it is recommended to hone the ability to think for Muslims because science and Islam do not contradict each other. Many problems in Islam become the guide for scientific development. Islamic education is related to the rapid development of communication technology. The ease of technology today makes it accessible for Muslims to deliver learning [5].

Technology has certain characteristics very relevant for educational purposes. Educational technology allows for: first, the dissemination of information broadly, evenly, rapidly, uniformly, and in an integrated manner. Second, the presentation of material logically, scientifically, and systematically can complement, support, and clarify the concepts, principles, or propositions of the subject matter. The third is to become a teacher's partner to realize the teaching and learning process effectively, efficiently, and productively according to the needs and demands of students. Fourth, utilization as a learning resource can present material in a more interactive way [6].

3 Methodology

In this study, researchers used library research, namely research with a series of activities related to library data collection methods, reading and recording, and processing research materials. Library research is a method in which the object is sought with various library information such as books, scientific journals, magazines, newspapers, and documents [7]. This research is unlike other studies which require observation or interviews to obtain data. Based on that reason, the theory of literature in this research focuses on the findings of both studies and theories and does not deny the findings of ideas in previous research, which are then used as analysis and problem-solving in the formulation of the research with a qualitative approach.

4 Results and Discussions

Innovation is a novel change towards improvement or different the preexistent, in a deliberate and planned manner [8]. In the context of learning technology, innovation refers to the use of advanced technology, both software and hardware in the learning process. The main purpose of this new technology application is to improve the quality, effectiveness, and efficiency of learning. Methods and strategies are also an innovation in learning.

Learning Islamic religious education based on information and communication technology here implies the process of learning Islamic religion which seeks to solve educational problems by utilizing available resources as efficiently as possible. However, more emphasis is placed on the usage of information and communication technology,

especially the Internet as a learning medium for Islamic religious education in the form of social media.

The development of social networks or better known as social media has now influenced the world of education, for example in the learning model. Social media can be used for the success of the world of education. The benefits of social media in education include the following [9]:

1. Online “Field Trips”

The social media presented are Pinterest, YouTube, WordPress, and Google+, Automotive class is a “transportation” for me and my students to explore the advancement of technology. Without spending a penny, time, and effort, social media presents pictures, videos, and articles that take us into the interesting world of automotive. The most enjoyable moment is when we can do an “Online Field Trip” by selecting what objects we want to see and share in class.

2. Online Presentation Skills

Many teachers and students have relied on PowerPoint with writing and pictures to present material. The social media integration presented by each student in the class builds students’ skills in using materials from cyberspace to be explained, elaborated, and presented clearly to other students. Additionally, students learn that with Twitter tweets, pictures, articles, and videos can be directly used as interesting discussion topics to be shared and debated in class. Students learn to build a culture of sharing knowledge and insights that they do in cyberspace.

3. Online Critical and Creative Thinking

From various social media, many critical questions arise about why it was formed in such a way. How does the process happen? What caused it to happen? And various interesting questions about objects in cyberspace. Classes become discussion forums that discuss up-to-date issues in cyberspace filled with interactive questions and answers in class. Moreover, creative answers emerged from other social media which gave students the ability to predict, analyze, and create the answers they found in research.

4. Online Research Skills

Through learning to integrate social media, students will learn how to use social media more effectively as a research medium that can inspire new insights. Students will find the relevance of what they learn with various tweets, images, articles, and videos that are all around us and accessible. Research becomes more fun and interesting by using actual, diverse social media, and also involving various users of social networks. In addition to training students, students are taught how information search can be done in cyberspace, students are also trained to use various ways of applying knowledge in everyday life. By appreciating the process of finding, collecting, and presenting research results. Students will be more confident to continue working through diverse research.

5. Online Artistic

Through social media, we can build a paradigm that science does not contain dull text. Science saves millions of beauties, works of art, and wonders that can inspire our world. As evidenced by the presence of social media, students are increasingly appreciating the artistic value and beauty of various photos, articles, and videos that

are exhibited attractively. Equipped with these various sources, the handbook is only a theoretical handbook that can be seen in real form and relevant examples through social media.

Among examples of innovations in learning Islamic education that has progressed are in the lessons of the Qur'an and Hadith. This is proven by the many Islamic software created by experts that can be used to support learning media. As well as PowerPoints, flash, digital Qur'an, digital Hadith, e-books, games, and so on. Thus, the use of information and communication technology has a positive impact on learning Islamic education. It results in easy learning, as well as being able to display interactive learning by relying only on one method. Islamic religious education teachers are also not seen as outdated but can pioneer information and communication technology that is moral and dignified [10].

Innovation can also be carried out with two different approaches, starting with a topic approach or starting with a technology approach. Learning Quran Hadith, for instance, starts with determining the topic or material that students will learn. Another example is *tajwid* material entitled "rules of nun sakinah and tanwin", the teacher looks for relevant technology in the form of software or applications that contain material and now can be downloaded in various kinds of applications of games about Islamic education materials.

Besides, there are also problems with Islamic religious education which so far include three points: first, incorrect definition of religion; second, the paradigm used in religious learning; third, the purpose of religious learning. Religion is only interpreted in terms of rituals and readings, whereas in-depth religion can be interpreted as the whole of human behavior in life. This behavior forms the integrity of a human being with noble character based on faith in God and personal responsibility for the future [11].

The paradigm used in religious learning in schools/madrasas is not yet comprehensive, because it is still a substantive paradigm, that is, studying religion is only limited to studying texts without being combined with moral goals that provide eternal ethical guidelines. Therefore, a paradigm like this needs to be followed by an inclusivism paradigm that holds an open view of everything because no human being is perfect, and it is also followed by a pluralistic paradigm that holds that diversity is unavoidable.

The third problem is the incorrect purpose of religious learning because the essence of religious learning in schools/madrasas is to clear, remind, and inspire, as well as (reactivate) the nature of every human being so that this nature can influence and direct one's mindset and actions.

Subsequently, the results of the study also show that the application of Islamic religious learning has a very high dependency. It is influenced by facilities, school conditions, families, students, and how teachers perceive the curriculum [12].

Based on these problems, innovation in learning Islamic religious education needs to be done. One of them is learning based on information and communication technology as a new alternative in the learning process of Islamic religious education so that problems can be solved and the desired goals can be realized. However, this form of application of information and communication technology-based Islamic religious education will be studied and designed according to the needs of students.

As stated by Tajul Ariffin Noordin, the use of advanced technology such as computers is very important and can influence the development of Islamic education in five stages.

First, the use of computers in learning can serve as a tool to enable Islamic religious education to expand its knowledge paradigm. Second, the use of advanced technology can be used to achieve integration between Islamic religious education and science education. Third, how we use and positively exploit all forms of existing technology to make Islamic religious education the basis for the study of educational sciences or basic sciences [13]. Fourth is to realize a series of world Islamic religious education. The convenience of technology can be used to frame and foster a paradigm and curriculum of Islamic education that is the same for Islamic countries. Fifth, to foster the concept of monotheism in the sciences. This denotes that by using technology we can explain that science is unified. This fifth stage completes our efforts to foster an advanced Islamic civilization.

Those five influences of technology on the development of learning in Islamic religious education can be proven and the positive results are felt if information technology in the era of globalization and the progress of science and technology is currently really utilized and optimized by education stockholders, especially teachers of Islamic Religious education.

5 Conclusion

In this era, technology and science have developed progressively to reach various aspects of life, especially in the field of education. With the current advances in technology, the field of education begins experiencing significant changes, especially in terms of the learning and teaching process. This is an important point that should be considered in Islamic Religious education because Islamic religious education has been viewed as traditional and rather irrelevant to the era of the majority learning process. Therefore, it is important for teachers of Islamic education today to start being open-minded and literate about technology and its development.

As a result, innovation in Islamic religious education is needed to support even better learning success. This can be carried out by using fun, creative, and innovative learning methods, such as using the internet, e-books, power points, and interesting learning videos; all of which are now accessible.

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