Learning Design Based on Technology in Islamic Education

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Abstract

The study aims to describe the design of technology-based learning in Islamic education. Digitalization has led to technological advances in designing learning in Islamic educational institutions that cannot be separated. This study uses a qualitative approach with a library research method by collecting information from various journals and books. The results of the analysis show that knowledge of progress is essential in environmental education, including Islamic education.n. To keep going, adapt to the development of technology. The ADDIE approach is an effective model that positively impacts the quality of learning and assists students in reaching their maximum potential based on their characteristics, qualities, and ability to participate.

Keywords: Learning design, Technology, Islamic education

Introduction

In this digital era, technological developments are increasingly rapid and have an impact on all aspects of life, including education. The use of technology in Islamic education is urgent and must keep up with the times (Patahuddin et al., 2024). Designing learning requires the use of technology as a tool and an important component. Technology development is fast, widespread, and sophisticated. In order to prepare participants for challenges and progress with technology that occurs periodically, this institution's education must incorporate technology into the curriculum and learning process. (Rodiya et al., 2022). The use of technology in education is absolutely necessary to address problems in the field of education, especially to improve the quality of education. The condition of the technology and the available network will determine how smoothly everything runs.

Learning in Islamic education aims to transfer academic knowledge and instill Islamic values (Noer, 2023)(Noer, 2023). However, many challenges experienced by the institution Islamic education, one of them is For integration of technology to in the learning process

without ignore nature and purpose main Islamic education. On the one hand, technology can be used to enrich learning by presenting more interesting and easily accessible content, while on the other hand, it means maintaining the integrity of Islamic values throughout every stage of technology-based education. (Sholeh, 2023)

The readiness source, human resources, supporting infrastructure, and the institution's ability to blend technology with Islamic values are key success factors in village learning based on technology, which can create interactive, innovative, and effective learning experiences. To increase quality learning at Islamic educational institutions with design-based learning technology, it must be done carefully without compromising the essence of Islamic education. This article discusses design learning based on technology in Islamic education.

Literature Review

Technological developments have an impact when teachers determine learning methods and media. Teachers are required to be more creative in designing classroom learning. Technology-based learning designs need to adapt to the times, so that the teaching and learning process becomes more interesting and students are more motivated to follow the learning process (Muzakki et al., 2021). This is also in line with the results of research conducted by Musnida, which shows that using this technology can increase the variety of learning and student learning motivation (Musnida & Asmendri, 2023).

Learning based on technology allows for the delivery of more material, creativity, and innovation. to support the learning process in the classroom scope of this digital era needs creativity, knowledge and skills in to design a learning media based on technology (Handayani et al., 2022)

 Research Methods

This research using a qualitative approach with library research methods. Library research involves data collection and analysis from various books, journals, related articles and so on (Hamzah, 2022).

Research subjects consist of several primary and secondary sources in journals and books related to the research title. In the data collection technique used, namely by collecting documentation of several research sources, both journals and books, the data obtained is analyzed from several sources, verified or conclusions are drawn to strengthen the data acquisition which will later be described as results in the study.

Results

Era of development moment This Keep going side by side with development technology that shapes civilization new life. How ever with so No can denied technology information like 2 sides eye knife that impacts life individual. Awareness will second side. This

important for manage and utilize technology information with wise. With the right approach, we can maximize benefit technology while minimizing will possible risks arise. In line with progress, knowledge is obligatory in environment education. For Keep going adapt with development technology in increase quality Education. Technology education assumed as media, materials, tools and methods and techniques or framework work used with the intention is for interaction information communication can in progress in a way effective in accordance with expected goal education (Salsabila et.all, 2021). Utilizing technology as an educational medium can increase quality learning and helping student reach maximum potential they based on characteristics, quality and ability participant educate. This is become a problem important things to do be noticed in developing Islamic education with technology that is believed to contribute big to understanding participant educate to the material studied.

Development technology information on Islamic boarding schools become important in transforming Islamic society, as said by Muhammad Nuh at the launch of the "Open, Distance, and E-Learning Program" in Jakarta. This program aims to make Islamic boarding school a closeknit community with technology communication and information, so that capable give enlightenment an inclusive, humanistic and oriented Islamic civilization to front. Eight Islamic boarding schools in Java that are involved in this program, such as PP Al-Nizamiyyah and PP Nurul Jadid, became a pilot project that demonstrated impact positive from implementation technology. Trial results show that this program Is beneficial for Islamic boarding school and gets good response from the public.
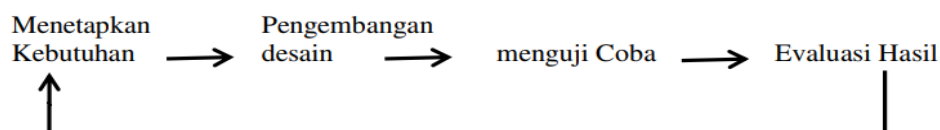
Besides that, many Islamic boarding schools have experience progress in Information Communication and Technology, such as Nurul Jadid Islamic Boarding School Paiton Probolinggo, which has utilized computerization in various aspects, including provide Engineering major in college the height it manages. This shows that integration technology in education Islamic boarding school can increase quality education and expand access for young generations. The Islamic boarding schools and madrasas under its auspices the more show progress in field technology information. For example, a standardized Islamic high school international has equipped with facility complete like digital library and laboratory connected computers with the internet. Islamic boarding schools like An-Nur in Mengok and Al-Imam Jambesari also have laboratory computers that are always crowded used by students to look for latest information.

Progress technology information in the institution Islamic education, including junior high schools and senior high schools, has seen with implementation e-learning system. For example, SMA Kabupaten Purworejo utilizing learning media based on technology information namely with utilise html 5 application with Construct 2 on eyes lesson Sociology, the tools needed is computer /laptop, internet, and materials. This is in accordance with opinion (Safitri et.all, 2023) who said in utilization technology use repair quality Islamic education, with pay attention to 3 components:

1. Educators and participants educate own access digital technology and the deep internet classes, schools and institutions education.
2. Available quality, meaningful, and supportive cultural materials for students and teachers.

3. Educator skilled competent in mastery digital tools and resources in help student achieve academic standards.

In implementation method development sociology teaching materials based on technology information done with 4 stages: first, analysis situation /need, second compilation teaching materials, third workshops and simulations, lastly evaluation results teaching materials. This is in harmony with theory (Handayani, et.all, 2022) are of the opinion that in designing a learning there is a number of steps designed by educators for applied in activity Study teach so that creating interesting learning output. Work steps the own a number of stages as following:

Menetapkan Kebutuhan $\longrightarrow$ Pengembangan desain $\longrightarrow$ menguji Coba $\longrightarrow$ Evaluasi Hasil
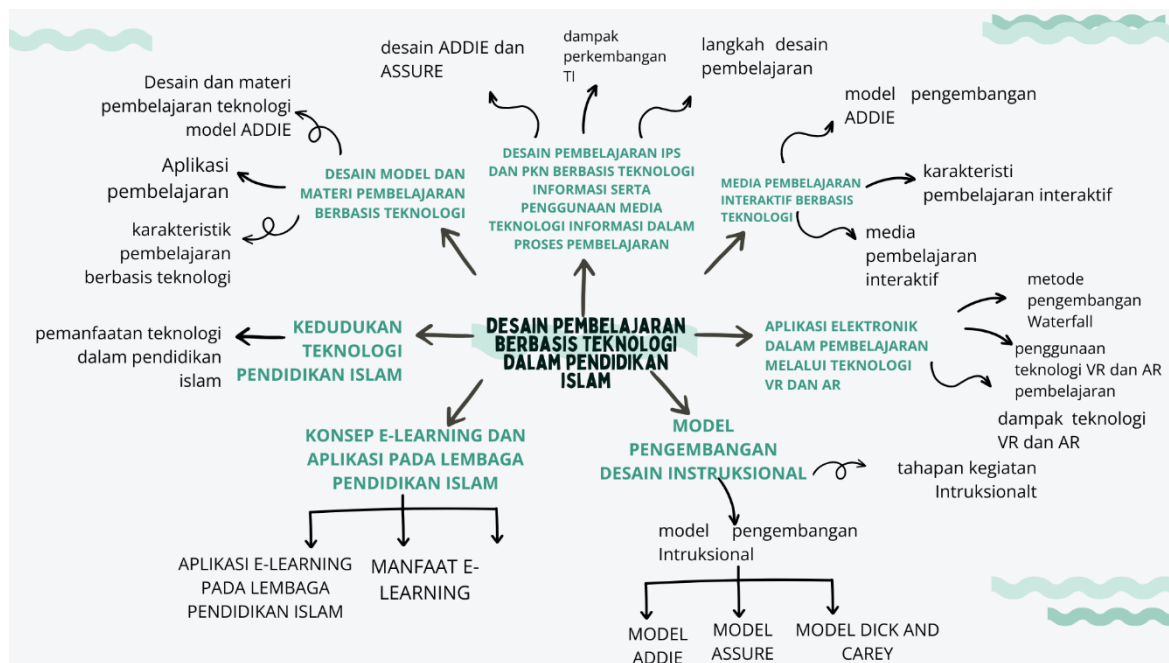
Figure 1. Learning Design Steps

Learning design aiming for determine method or the method considered Good in do change or innovation, as well as skills towards what the educator wants. In the design process learning integration process is required a number of element the key needed be noticed in create activity learning that is not only more easy, but also more impact for which student thing the allow necessary adjustments for fulfil need individuals and groups students. Elements The keys in question include: theory learning, technology information, systematics analysis, research in field education, and finally method management (Kurniawati, 2021).

Learning design based on technology at least fulfil four principle namely nature effective and efficient, optimal, attractive, and stimulate power creativity Study students. Therefore, that expected no hinder activity study teach. However, give sufficient benefits in accordance with objective education formulated previously (Rahman, 2018).

Learning design based on technology in a way special has a number of characteristics that distinguish it from traditional methods. Here are some of them:

1. Multimodal Material: Presentation material learning can done in various formats, including text, images, audio, and video.
2. Personalization: Learning Internet-based often allows adjustment content and experience Study in accordance with need individual students, so that they can Study with the speed at which they want.
3. Collaboration: Student can Work The same in projects and assignments through online platforms, communicate and exchange ideas with colleagues even though they are in different locations.
4. Interactivity: Many learning platforms internet based provides feature interactive, such as quizzes, discussion forums, and simulations, which encourage involvement active students (Rahman, 2018)

Figure 2. Analysis chart study

Implementation of Technology Information and Communication (ICT) in education increase effectiveness and efficiency of the learning process. Use of electronic media, such as e-learning and books electronics, expanding access and equity education. The ADDIE model was identified as an effective method in designing the ICT-based learning process.

There are three theory underlying learning ICT based, namely behaviorism, cognitivism, and constructivism. Each theory give approach different in to design teaching materials. Principles key in using ICT include effectiveness, power pull, and increase creativity student.

Various applications, such as e-learning, online libraries, and virtual laboratories, demonstrate potential of ICT in increase learning. Technology integration information can also increase efficiency and quality learning, with examples like National Exam Based Computer (UNBK) and the concept of e-madrasah. Innovation in education also includes development source Power competent human resources in use of technology.

With apply technology, institutions education can increase productivity and quality service academic, which positively impacts students and reputation institutions. However, access to digital technology and the internet in the classroom are very important, and the challenges like inequality internet access and infrastructure that has not been adequate Still become constraints. Availability material quality and relevant learning is also very important for increase effectiveness learning.

Utilizing learning media based on technology can create experience learn more interesting and interactive for students. Effective learning design involves using technology to create interesting learning environments, allowing teachers to use various media such as images, videos and animations. Use of learning media IT based functioning as tool help

increase understanding student to material lessons and impact significant positive to results Study student.

Use technology in learning must be optimal, attractive, and capable stimulate Power think critical students. Although technology brings Lots of positive impacts, such as expanding access to information and improving administration education, there are also negative impacts that need to be noted, such as risk plagiarism and potential the decline social interaction among students. Therefore, design learning based on technology information is important in increasing quality education, especially at the level school base.

However No can denied let go from benefit big given in a way general, progress technology information at the private madrasah level Still limited to the provision of facilities and infrastructure others. The implementation of web- based e-learning is generally new applied to the eyes lesson certain. While in college high Islam, the implementation of e-learning is more generally used in the learning process. This show that Still There is room for development more carry on in integration technology in the field Islamic education in advance Islamic education.

Discussion

Study aims to describe technology-based learning design in Islamic education. Learning design based on technology in Islamic Education is one approach innovative For answer related with challenges that occur in the digital era, approaches with based on technology also provides opportunity big For increase quality and effectiveness (Alwi et.all, 2024). Implementation technology in learning offer advantages, such as improvement accessibility to source learning that allows student for develop independence in the learning process, personalization learning that makes learning become effective Because already adjusted with ability students and development skills in digital (Hero, 2024). Implementation technology in Islamic Education need balanced with principles of Islamic education to remain relevant with spiritual and ethical values Islam so that later will give influence to attitude so that produce good morals (Nasruddin, 2015).
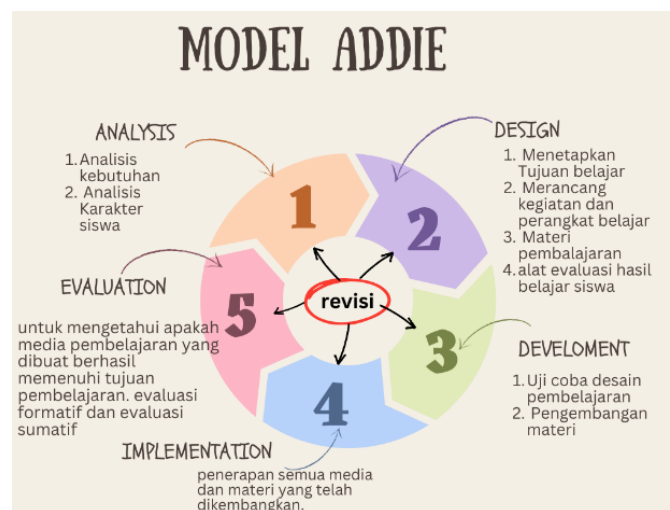
Based on study (Salsabila et.all, 2021) with existence progress knowledge so environment education required For Can adapt with development technology, where educational technology is assumed as a medium, a tool and the method used with the intention is for interaction information communication can in progress effective and efficient in accordance with educational goals. In carry out method based learning technology information so need done design proper learning, we can maximize benefit of technology with minimize will possible risks arise. This is in accordance with study (Handayani, 2022) in designing a learning loaded with a number of step that is set needs, development design, test try and evaluate results.

Based on research by (Ali Rahman, 2018) and (Firia and Muhammad, 2021), teachers as Education implementers must capable prepare proper learning following the learning model needed by the students that is adjusted with needs and capabilities with consider condition

environment student so that later in the learning process for increase quality. In determining matter, the teacher must choose a model that can blend technology and media in the learning process. Research by (Muhammad and Tri,2014), learning media multimedia based is very popular used Because considered can make interesting and helpful in delivery material as well as make it easier student for understand, there is Lots one model that can used in method learning multimedia based namely approach or ADDIE, ASSURE, Dick and Carey, waterfall models.

Based on from the analyzed data, research This propose and utilize design learning based on technology in Education with the ADDIE model which will later used For directing and illustrating with good learning process because of this ADDIE model is This design focuses on the ADDIE system and model. in its implementation blend use technology and media in the learning process.

Figure 3 Stages of the ADDIE model

Study This in analyze find that design learning based on technology in Islamic Education with using a model or The ADDIE approach provides a positive impact in increase quality learning and helping student reach potential maximum they based on characteristics, quality as well as ability participant educate. This is following Sherly et al's (2024) research which resulted in that design based learning technology with visual and audio media to create student more easy understand material learning than only abstract explanation besides it also makes atmosphere learning become pleasant.

 Conclusion

Based on studies the literature that has been writer do, with based on the results analysis journals and books can concluded that progress knowledge obligatory environment education, including Islamic education, for keep going adapt with development technology. of course. in carry out method learning based on technology need done A design learning, with existence design based learning technology can increase quality learning and helping student reach potential maximum they based on characteristics, quality as well as ability participant educate.

Learning design based on technology. This own a number of stages, namely set needs, develop design, test try and evaluate results. One of the form design learning based on technology in Islamic Education with using a model or The ADDIE approach provides a positive impact in increase quality learning and helping student reach potential maximum they based on characteristics, quality as well as ability participant educate. In the research this own limitations in form theory just Not yet explained in a way Details related application to the design model ADDIE learning, so that researcher recommend For researcher furthermore Can do study to implementation application of design models ADDIE learning in Islamic Education.

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