



ANALYSIS OF MEDIA DEVELOPMENT NEEDS E-MAGAZINE MATERIAL INHERITANCE OF ISLAMIC INTEGRATED NATURE FOR GRADE IX STUDENTS AT ISLAMIC JUNIOR HIGH SCHOOL

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Abstract

This research to conduct an analysis of the need to design science learning media. Needs analysis is done through interviews with teachers and students and field studies. The analytical technique used is qualitative descriptive analysis. The results of the interview concluded that 1) The use of learning media as a learning resource in the science learning process is limited to student worksheets books and modules, making it less attractive to students. 2) The learning process is only focused on the lecture method, so students are less active in the learning. The results of the teacher's needs analysis stated that 100% agreed to use e-magazine learning media of nature inheritance material. The results of the analysis of student is 92.7% of students stated the need for media development, 52.7% of students stated that the material inheritance of nature is difficult to understand, 67.3% of students want interesting, illustrative and easy to understand learning media and 94.5% of students stated that they agreed to develop learning media in the form of e-magazine nature inheritance material and 63.6% of students expressed the need to understand It is a learning process with Islamic integration.

Keywords: Needs analysis, Learning media, e-Magazine, Integrated Islam

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INTRODUCTION

According to the National Education System Law regulated in number 20 of 2003, it is stated in article 1 paragraph (1) that education is a systematic and planned effort in creating a learning process and learning atmosphere in order to have a positive impact on students to develop their potential, character, personality, intelligence and skills needed for themselves, as well as to advance the nation and state. Education also means an effort to provide a positive lesson in the scientific field to students so that they can adapt to their environment so that they can make it a provision in society (Rezeki, 2020). In madrasah unit education, related updates are needed regarding the integration of science and Islam and the learning process to provide knowledge to students.

Integration is one of the important points in the learning process as a benchmark for quality in educational level units. Educational units that are actually based on Islam should be able to integrate learning science, especially science and religion. With the integration in the learning process, there will be a continuity between science and religion. Therefore, to balance the teaching and learning process, especially, the learning of science and religion through the process of integrating in the learning process. So, later students can develop their knowledge and relate it in everyday life. (Ayu Lestari, 2020).

In education, learning needs to be conveyed to students properly and correctly so that the information conveyed from educators to students can be captured both by students appropriately and not cause misconceptions. In order to support the educational process in a learning is to use tools, learning media that directly affect the learning process (Meyer et al, 2019).

Interesting and easy-to-use learning media are its own attractions, as well as digital-based learning media in accordance with the era of globalization (Schneider et al, in Arifin 2019). Learning media is basically a tool / device / tool to convey information used in the learning process so that learning can run optimally (Lely Yuliawati et al, 2020). The era of digitalization is required to develop media that is more *friendly* to the needs of *upgrading* the times and innovative and creative in utilizing and developing learning media in accordance with the times, but sometimes teachers are not able to create learning media that students expect due to various external and internal factors (Jalihah Rahmastuti, 2014). Therefore, one of the things that needs to be done to maximize the learning process is to design learning media and develop learning media that are in accordance with the learning model to make it easier for students to understand learning.

In fact, many results show that when student learning outcomes are measured using the MCC (Minimum Completion Criteria) indicator, many students get low scores below MCC. One of the contributing factors is not only due to low student motivation, but also in learning resources and learning media that are less *upgraded* with the times and less attractive in terms of visuals, resulting in a lack of interest and motivation of students in learning so that students tend to lack understanding of learning. Therefore, it is necessary to have media that can be interesting, illustrative and make it easier for students to learn learning as well as can be used as a learning resource and media in learning (Nurjanah, 2014).

Electronic magazine is a medium to convey information based on electronics so that it can make it easier for *users* to use it by not monotone in writing (Dwi Utami, 2020). This electronic magazine no longer needs paper as its raw material, but in the form of a digital file that can be accessed online, provided that it is connected to the internet network. This means that the e-magazine can be accessed anywhere and anytime. e-magazine is one of the learning resources as well as learning media that contains learning materials in an informal format (according to the wishes of the maker) without special rules like modules. Another advantage is that with the help of the Flip Pdf Professional application, e-magazine can be added with various supporting features to make the appearance of e-magazine more attractive such as the availability of features to add images, videos, and audio and text so that it is more attractive (Falahudin, 2014). Facilitated by videos and images, students can directly access it according to the material. So that e-magazines can be used as electronic learning resources as well as learning media. In addition, because it can be accessed *online*, it can be used on condition that it is connected to the internet network.

The advantage of using an *e-magazine* is that it can be operated with devices such as Laptops / computers, Android, iPad, Tabs because it has been hosted. Unless it is not online, then you have to install it along with the application. In addition to media, this learning reduces the use of paper periodically and is *going green* because it utilizes existing *Yan* technology. This is also supported based on the results of Research by Yulianto (2013), that the results of research on the development of biology magazines can increase student learning motivation, increase learning outcomes and can empower students' thinking ability. By using magazines as a learning resource as well as learning media can help students in maximizing the teaching and learning process.

It is hoped that this needs analysis can provide analysis results from students and teachers that can be used in designing learning media that are interesting, illustrative and easy to understand, and have benefits for students and are in accordance with the digitalization era. Interesting media can increase the motivation and enthusiasm for learning students in understanding the material that has been given so that students will be more active in learning and trained in thinking.

METHOD

The method of this study is descriptive with a survey method through direct interviews. The needs analysis stage refers to the ADDIE development model in the analysis stage (analyze). Indicators and aspects in this study are: (1) Material analysis (2) Analysis of facilities and infrastructure (3) Analysis of student characteristics (4) Analysis of the learning process. The indicators are then processed into several questions in the form of questionnaires that are shared through Google Forms and surveys.

The research sample was selected using the random sampling method of MTs class IX C MTs Muslimat NU Palangka Raya. The population in this study were MTs class IX students with data collection techniques carried out using the needs analysis questionnaire method which was spread online. Next, the data are analyzed using descriptive statistical techniques.

RESULTS AND DISCUSSION

The results of the analysis through questionnaires and distribution through *google forms* show the learning process during the Covid-19 Pandemic at MTs Muslimat NU Palangka Raya using an *online* learning system. Only a few of the students who experienced network problems were forced to go *offline* to school. The results of the analysis can be seen in the results of the questionnaire in Figure 1.

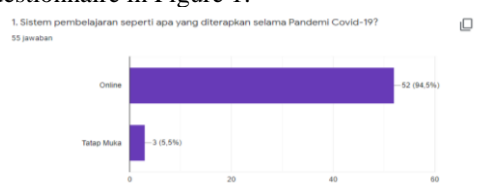


Figure 1. Results of Learning System Analysis During the Covid-19 Pandemic

The learning carried out during the Pandemic, made the education system switch to blended learning. Mixing system between online and offline. The online learning system requires teachers or educators to create an interesting learning media while increasing student

knowledge. On the one hand, the weakness of the online learning system is the absence of a strong feeling between teachers and students in the learning process. Teachers who become facilitators are now increasingly limited in their wiggle room because of the online learning system.

The results of material analysis on subjects in MTs as many as 54.5% revealed that Biology lessons are difficult to understand. The results of the analysis can be seen in Figure 2. Biology lessons are a difficult subject for students, because students must understand some foreign terms and are directly related to life systems so they must be studied in more depth.

2. Menurut Anda, apakah pelajaran Biologi merupakan pelajaran yang sulit dipahami?
55 jawaban

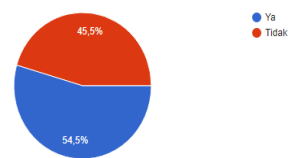


Figure 2. Subject Analysis Results

Students revealed that the difficult lessons in Biology with the lowest level started from the material in the growth and development chapter and the human reproductive system as much as 18.2%, cell division as much as 43.6%, material Inheritance traits as much as 52.7% and biotechnology as much as 54.5% which can be seen in Figure 3.

3. Menurut Anda, materi apa yang sulit dalam pelajaran Biologi kelas 9? (Jawaban bisa lebih dari satu)
55 jawaban

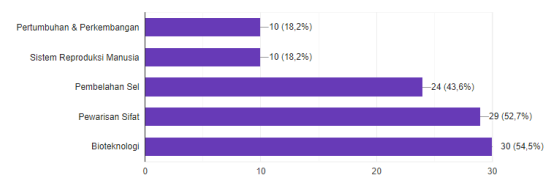


Figure 3. Results of The Analysis of Biology Learning Material Chapter

Biology material, especially in the sub-chapter of trait inheritance, is one of the material chapters that requires more in-depth visualization and explanation because of the large number of foreign terms and misconceptions in the learning process between the information conveyed by teachers and students.

In addition, this is because the methods used by teachers still tend to be monotonous which results in an impact on students who are less motivated in learning and understanding learning. Teachers are only limited to using lectures, Q&A, and light discussion methods through WhatsApp

Group (WAG). During the Pandemic, teachers only explained by sharing pages in the modules that became material on the day, then giving assignments. The results of the analysis of the methods used in teachers can be seen in Figure 4.



Figure 4. Results of Learning Process Method Analysis



Figure 5. Results of Material Analysis of Trait Inheritance

The trait inheritance material consisting of 3 sub-chapters of the basic molecules underlying trait inheritance, genetic laws and Crosses that occur in living beings is difficult to understand because the majority of learners revealed that 41.8% of learners had difficulty understanding foreign terms found in trait inheritance. This confirms that, the need for an interesting medium that needs to be created to understand students. The results of the analysis can be seen in Figure 5.

The results of the analysis of students revealed that under 92.7% of students agreed that learning media for trait inheritance material was developed. This is an effort to overcome the incomprehension of students and minimize the lack of material knowledge about trait inheritance. The results of the analysis can be seen at Figure 6. Learners also revealed that media is needed which is illustrative, interesting and easy to understand as much as 63.7%. The results of the analysis can be seen in Figure 7.

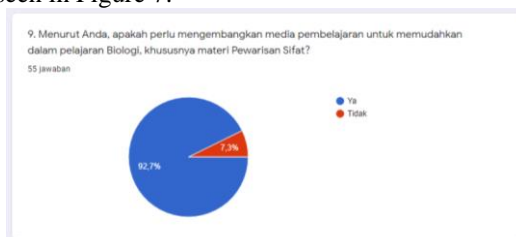


Figure 6. Results of the Analysis of the Need for Learning Media

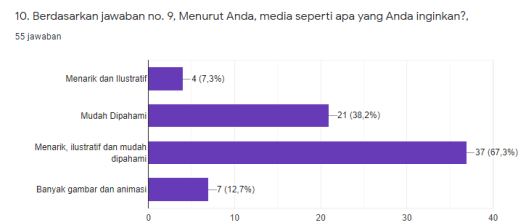


Figure 7. Results of Learning Media Criteria Analysis

In the learning process at the unit level of the Tsanawiyah Level Madrasah, it would be nice to apply a learning process that integrates with Islam. This is because, that the fact in the field encountered by researchers that the teacher learning process reveals that it has not linked the science learning process with Islam. The results of the analysis can be seen in Figure 8. The learning process that has not implemented Islamic integration makes it necessary to develop learning media that integrates the learning process with Islamic integration, as many as 63.3% of students revealed that it is necessary to develop media that integrates Islamic values.



Figure 9. Results of Islamic Integration Analysis

Based on the results of the analysis of the needs of students and teachers, it is necessary to develop a learning media that can be used *online*, especially during a pandemic with interesting, illustrative and easy-to-understand media for students using *e-magazine* media which is in the form of magazine-based electronic media that can be created without using a formal format and is made as illustrative as possible in order to attract the interest and motivation of students to learners so that students are motivated and the learning outcomes are improved because they understand the material presented.

In addition, the material in the educational unit should be related to the integration of Islam in the form of an update in the learning process which is a characteristic in the field of modern education. In the cognitive perspective, education from year to year continues to get a high priority in education. That is, education becomes one of the priorities and must be fulfilled the obligations of each citizen. However, the problem of integrating the scientific

process and learning outcomes is still a crucial problem in the learning process because of the development of science because it continues to develop and upgrade from time to time.

CONCLUSIONS AND SUGGESTIONS

Conclusion

Based on the findings of facts in the field and the results of analysis, e-magazine learning media can be one of the learning media to overcome the problems faced by students. The learning media created also integrates with Islam so as to increase the knowledge of students from the point of view of science and religion. E-magazines can be online so that they help students for the learning process because they can be accessed online.

Suggestion

It is hoped that with the analysis of e-magazine needs, e-magazine learning media can be made that are interesting, illustrative and easy to understand for students. The e-magazine that was made can also be studied to determine its effectiveness on students for further research. Teacher is expected to be able to create and develop learning media that are interesting for students.

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