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# Application of Digital Literacy Using *Mapalus* Techniques in Learning in North Sulawesi

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## ABSTRACT

Entering the era of the fourth world industrial revolution in this case information technology has become the basis of human life. In this era almost all life effects utilize digital, including in learning, one of which is digital literacy. Along with technological advances and the increasing individualism of society due to globalization, for this reason this study collaborates digital literacy and local culture, namely *mapalus* which means cooperation in learning in North Sulawesi. The purpose of the study is to determine the process of implementing digital literacy with the *mapalus* technique and to evaluate the effects of implementing digital literacy with the *mapalus* technique in learning. This research is a descriptive qualitative type of research. The data collection techniques used are observation, interviews and documentation. The results of the study show that the application of digital literacy in learning facilitates easy access for students to materials and assignments given by educators. This also increases students' interest in using technology in the learning process and by using the *malapus* technique which makes students work together and work together to complete the tasks given in learning.

**Keywords:** Digital Literacy, *Mapalus* Technique, Learning

## 1. INTRODUCTION

Education is a process to improve human quality through the development of Human Resources (HR). The main goal is to optimize individual potential to achieve physical and spiritual maturity. Rapid developments in technology and information have been significant for the world of education. Innovation in education is the result of efforts to overcome challenges and problems that arise, becoming a deliberate new step to achieve educational goals.

The industrial revolution 4.0, technology is increasingly advanced so that access to information becomes easier. Digital media facilitates interactive communication both in social and personal contexts. Increasing children's interest in reading is an important factor in developing the nation's literacy culture. To achieve this, it is important to provide affordable quality reading materials and prioritize habits.

Digital literacy is a form of ability to obtain, understand and use information from various sources in digital form. This literacy itself in the context of education plays a role in developing a person's

knowledge of certain subject matter and encouraging curiosity and developing creativity (Naufal, 2021)

Digital literacy in schools facilitates students in accessing information about social issues that are relevant to society. The digital and online era changes the demands for educators to collaborate in improving the learning process in the classroom.

Digital literacy has a significant role in increasing knowledge and inspiring students' interests, as well as enriching their creative abilities. This study highlights students' ability to utilize digital media to stimulate thinking.

Learning media has an important role not only as a means to communicate learning materials, but also to accommodate the varying learning styles of students. This involves the use of various formats and tools created to achieve learning objectives, mobilize students' thoughts, emotions, attention, and skills, thus supporting success in the teaching and learning process. Digital literacy skills is of great importance because it allows students to understand and interpret information related to lesson topics and other aspects of life (Sai & Surabaya, n.d.). Educators who are experts in information technology and are able to use technology

as a learning tool can provide many benefits, such as making students feel comfortable, safe, and enjoy taking lessons.

Digital literacy includes the appropriate, safe, and responsible use of digital media, while having the skills to assess, analyze, and convey information with a critical attitude.

Educators must play a major role in developing digital literacy by using textbooks and utilizing modern learning resources such as magazines, newspapers, the internet, and digital media to align learning with current developments (Mulyasa, 2005)

Schools implement digital literacy by using information technology platforms such as Google Classroom, Web Kahoot, and Quizlet. This is used to strengthen the learning process by presenting quizzes, games, and discussion forums as a way to evaluate student understanding, so that educators can provide further assistance according to their needs.

Along with the needs of the times and the increasing individualism of society due to globalization, there are several aspects that need to be emphasized, namely how to cooperate and respect each other. In addition, respecting local culture is also important for the sustainability and existence of the Indonesian culture. For this reason, this research certainly needs to be developed further in its effectiveness in implementing the learning process, in this case collaborating with local knowledge of the community, one of which is Minahasa culture, namely mapalus. In this study, what was done was trying to find in learning by linking it to local culture, so that later it would produce a new learning model that was more localized so that it was hoped that in addition to producing new syntax in education, it could also preserve the Indonesian archipelago culture, one of which was Minahasa culture. This study aims to (1) implement digital literacy with the mapalus technique, (2) evaluate the effects of implementing digital literacy with the mapalus technique in active learning.

## **2. RESEARCH METHODS**

The research method chosen by the researcher is a descriptive qualitative research method. (Ali & Asrori, 2018) said that the meaning of descriptive in qualitative research is describing the meaning of data or phenomena that can be captured by researchers, by showing evidence. This aims to find out and explain the process of implementing digital literacy with the mapalus technique in active learning for students

## **3. RESULTS AND DISCUSSION**

### **3.1 Digital Literacy**

The development of information technology has become an important part of the digital revolution, which has greatly influenced various aspects of life, including education. The current challenge in education is implementing a learning model that uses digital media to improve students' understanding. One example is the use of digital literacy that is in accordance with the times in delivering learning materials. Digital literacy is a 21st century skill that is needed for students (Nurweni, 2019). The above conditions are relevant to what was stated that although today's students are digital natives, they do not have complete knowledge of digital literacy (Nurweni, 2019). They are not very aware of how the use of technology has actually affected them while they are learning (Hadisaputra et al., 2019)

The advancement of information technology and the internet provides easy access to information, but also brings positive and negative impacts that are closely related, resembling the sides of a coin. This shows the need for a good understanding of digital literacy in the world of education. However, if used incorrectly, it can be detrimental to children. Therefore, to improve the digital literacy skills of the community, cooperation is needed between the government, educators, parents, and the entire community in increasing awareness of digital literacy.

Overall, digital literacy refers to the skills in using information technology to search, find, read, evaluate, use, and communicate with content, utilizing both mental and technical skills. Teachers need to ensure that digital literacy is taught in all subject areas, to broaden students' understanding, and as an additional reference to accompany textbooks.

### **3.2 Mapalus**

Mapalus is a system or technique of cooperation for the common good in the culture of the Minahasa Tribe. Fundamentally, Mapalus is a form of traditional mutual cooperation that is different from modern forms of mutual cooperation, for example: associations or business associations. Philosophically, Mapalus contains very basic meanings and significance. Mapalus as the local spirit and local wisdom of the Minahasa Community that is embedded and cohesive in it: 3 (three) types of basic human nature in their group, namely: Touching Hearts, Teaching Mind, and Transforming Life. Mapalus is the basic nature and life activities of the Minahasa (Manado) people who are called with a basic and deep sincerity of conscience (touching hearts) with full awareness and responsibility to make humans and their groups (teaching mind) to mutually revive and prosper each person and group in their community (transforming life). According to the book, *The Mapalus Way*, Mapalus is a work system that has ethos values such as reciprocal ethos, participatory ethos, solidarity, responsibility, mutual cooperation,

good leadership, discipline, transparency, equality, and trust (Umbas Veldy)

Mapalus is a culture of mutual cooperation in Minahasa, North Sulawesi Province. Mapalus is still practiced today in cities and districts of North Sulawesi Province. Mapalus culture helps shape the character of the community so that they can have a high social spirit.

### **3.3 Implementation Of Digital Literacy With Mapalus Techniques In Learning**

Starting the School Literacy Movement with the aim of improving the quality of Indonesian human resources to be smarter, superior, and able to lead change for the progress of the nation, as well as improving the quality of education throughout Indonesia (Pendidikan & Jakarta, 2017).

The School Literacy Movement is a comprehensive initiative that is easy to implement systematically in all parts of the school, by providing quality educators to increase students' interest in learning. By incorporating literacy culture into the curriculum, schools can help students develop their potential from an early age.

Utilizing digital literacy can improve student learning outcomes, which shows the need for schools to develop new ideas to create a supportive learning environment.

Mapalus Technique in Learning namely creating mutual cooperation or cooperation for the common good and as one of the applications of local community culture in learning.

One way literacy is implemented is through digital literacy, which has been made part of the school curriculum. Educators are asked to align their learning with this digital literacy concept.

Schools need to strengthen students' abilities in digital literacy, especially in the library by providing literacy materials and integrating technology in learning to achieve the desired digital literacy goals.

Educators must have solid digital literacy skills, which they acquire through educator training sessions, where they jointly develop an approach to student needs.

Schools have partnered with Google Classroom as an option to improve the efficiency of online learning. Google Classroom provides features such as online classes, announcements, assignments, assessments, and various others. The role and benefits of Google Classroom are different for students and educators.

Delivered through images or powerpoints in Google Classroom before the meeting takes place. At the end of the meeting, they are asked to submit a review of the learning process, not only in terms of cognitive understanding of the material, but also looking at the

affective and psychomotor aspects of students related to how well they absorb the material and participate in learning discussions.

In addition to access to digital materials, students also have access to a library that provides various reading materials, containing diverse literature. If students have difficulty understanding digital material, the mapalus technique becomes a place for students to provide an understanding of the material to other students.

Learning is not limited to the Google Classroom platform alone, but also involves various methods such as games, discussions, and question and answer sessions using tools such as Kahoot or Quizlet. All of these methods can be combined with the Mapalus technique, which means cooperation between students in learning so that learning objectives can be achieved optimally.

Kahoot and Quizlet are used to make the process of evaluating students' understanding of learning enjoyable through interactive quizzes given by educators and followed in groups.

After the quiz is finished, educators continue by holding a discussion of the questions with students. This discussion can be uploaded to Google Classroom. Learning approaches that involve interaction such as playing an active role in finding materials and sharing ideas with fellow students, especially after previous independent learning preparation.

### **3.4 Impact of Using Digital Literacy with Mapalus Technique**

Digital literacy is crucial because it recognizes the ability to utilize and search for information through digital technology, which can have a massive impact, both positive and negative (Munir, n.d.)

The benefits of using digital literacy include:

1. Electronic media, such as the internet, laboratories, and computers in schools, facilitate the implementation of learning by providing the necessary technological support.

2. Digital literacy presents new ways of learning that allow educators to deliver material more easily to students, thus supporting the creation of active learning in the classroom.

3. To speed up the learning process, a learner can use a special glossary application that contains important definitions.

4. There are many applications that can help you compare product discounts, which can help you reduce your spending when shopping online.

5. Improving the ability to make better decisions through digital literacy involves using useful information to encourage better actions (Munir, n.d.).

The use of digital literacy in schools has a positive effect on students' academic achievement. With the ability to use digital technology, students can explore materials more creatively and innovatively. They can also criticize social phenomena to participate in active discussions, creating a supportive learning environment. In addition, strong reading and writing skills also help students develop the habit of reading books, which in turn increases the effectiveness of learning.

In addition to its benefits, the use of digital literacy also has negative impacts, as mentioned by (Pratiwi & Pritanova, n.d.).

1. The transfer of the role of educators which results in educators being ignored, creating individuals who are more independent because learning can be done alone.

2. Students become too burdened with the amount of information that continues to flow through the internet and become addicted to excessive cyberspace.

3. Making students and educators lose interest in their respective personal interests, causing apathy.

Supervision of educators when using the internet in learning and carrying out the established library activity schedule is very important to prevent negative impacts.

External factors such as community and government support greatly influence the success of the school literacy movement, especially through socialization, provision of facilities, supervision, and evaluation of education by both.

Digital literacy is identical to individualism while the mapalus technique encourages students to cooperate in learning, so the application of digital literacy with the mapalus technique still requires a deeper understanding for both educators as facilitators and students as learning subjects. Schools also collaborate with parents to monitor the use of technology at home, so that the digital literacy taught in schools is in accordance with the practices carried out at home. It is hoped that students have a better understanding of positive attitudes in using technology media, adopting its positive aspects and avoiding negative ones.

#### 4. CONCLUSIONS

Implementation of digital literacy through e-learning, google classroom, kahoot and quizet and so on with the mapalus technique, namely a technique from the Minahasa land culture that creates mutual cooperation or cooperation for the common good that is applied in learning in North Sulawesi.

The application of digital literacy in learning facilitates easy access for students to materials and assignments given by educators. This also increases students' interest in using technology in the learning process. The malapus technique is a technique that makes students

work together and work together to complete the tasks given, the mapalus technique as one of the applications of the local culture of the North Sulawesi community in learning.

#### AUTHORS' CONTRIBUTIONS

Rahmania Rahman conceived the idea and developed the theory, Paulus Tuerah verified the analysis method, Sangputri Sidik and Romi Mesra investigated and supervised the findings of this study. All authors discussed the results and contributed to the final manuscript.

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