



# THE ABILITY TO UTILISE TECHNOLOGY ON CERTIFIED TEACHERS IN THE LESSON IMPLEMENTATION PROCESS IN SDN SAMAHANI ACEH BESAR

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## ABSTRACT

*This research is based on the problem of the ability of technology utilisation of certified teachers in the process of implementing learning at Samahani Elementary School in Aceh Besar. In addition, some teachers still lack the confidence to use learning technology due to the lack of teacher knowledge in the application of technology. This study aims to determine the ability of technology utilisation in certified teachers in the process of implementing learning at Samahani Elementary School in Aceh Besar, this research uses a qualitative approach. The research subjects consisted of 2 homeroom teachers, namely class II teachers and class VI-a teachers. Data collection techniques using observation sheets and interviews. There are three data processing techniques, namely the Data Reduction Stage, the Data Display Stage, and the Conclusion Drawing and Verification Stage. From the results of observations and interviews, the two teachers, namely the Class II Homeroom Teacher and the VI-a SDN Samahani Homeroom Teacher, mastered the use of technology as a certified teacher, where teachers must understand the characteristics of students, curriculum/syllabus development, learning design, implementation of educational and dialogical learning, utilization of learning technology, evaluation of learning processes and outcomes, and development of students to actualize their various potentials. With the use of media that is following learning objectives, suitability with learning materials, suitability with student characteristics, paying attention to effectiveness and efficiency, and teachers must be able to operate learning technology, learning objectives will be achieved.*

**Keywords:** Learning Technology, Teacher Certification

## 1. INTRODUCTION

Education is a conscious effort that is deliberately planned to achieve predetermined goals. Education aims to improve the quality of Human Resources (HR). Each country has educational goals, Indonesia's educational goals have been included in Law No.02 of 1989 concerning the national education system. Education plays an important role in preparing quality human resources. Therefore, education should be managed, both in quality and quantity. Learning is the beginning of preparing qualified future generations. One of the efforts that can be made to achieve national education goals is through teaching and learning activities. One of the characteristics of learning is the occurrence of changes or individual development which includes three directions known as cognitive, effective, and psychomotor development. Learning and teaching activities often experience obstacles and obstacles so that the expected goals are not achieved, namely changes in students. One of the reasons for the absence of change as a student is that the students are tired of participating in busy teaching and learning activities so the learning outcomes achieved are not satisfactory and the learning load is too much. Coupled with teachers who do not use media during the teaching and learning process, making children feel bored and saturated.



Based on the results of preliminary observations in class II and class VI-a SD Negeri Samahani Aceh Besar, elementary school students who are still at the stage of development of concrete thinking require learning media as a tool in understanding the material. If the media used is still conventional, namely only utilising the surrounding environment sometimes makes students feel confused and eventually experience errors in understanding the material, it is necessary to develop a learning media that is easy for students to understand. Learning will be more optimal if learning uses an intermediary tool/media because based on the paradigm of constructivism states that the media occupies a strategic position in realising optimal learning conditions.

Based on the results obtained by the researchers, in the learning process the teacher only utilises the surrounding environment as the learning media, it can be said that the learning media used is still conventional. The application of technology in learning can help convey the meaning of learning itself so that it can be well received by students. In class II and class VI focus has been provided but the application of technology in learning is only limited to displaying images and slides, the media has not been developed into multimedia. Therefore, there is a need for innovation in developing a learning media so that it can increase student learning motivation. According to Hamalik (2020: 24), "the use of teaching media in the teaching and learning process can arouse new desires and interests, as well as generate motivation for students in the teaching and learning process".

Based on the learning problems mentioned above, improvements need to be made as a strategy to improve student achievement in teaching and learning. As a facilitator, the teacher does not dominate students through stories, lectures, or explanations, but he views students as responsible individuals who can process learning resources so that they carry out learning activities based on appropriate instructions. Naibaho (2018:34) states that "teachers as facilitators must be able to make time for personal or small group consultations with learners both indoors and outdoors. That way the teacher helps students in overcoming learning difficulties and planning effective learning activities".

Given the importance of the use of technology to facilitate the learning process, researchers are interested in researching to find out more about the implementation of the teaching and learning process at Samahani Elementary School using learning technology. So, the researcher took the title, "Ability to use technology on certified teachers in the lesson implementation process at SDN Samahani Aceh Besar".

## **2. METHODS**

The approach taken in this research is a qualitative descriptive approach. The main purpose of conducting qualitative research is to describe systematically the facts and characteristics of the object or subject under study precisely. This research was conducted from the 24th to the 28th of July at SD Negeri Samahani, even semester 2022/2023. The subjects in this study were 2 homeroom teachers, the homeroom teachers were chosen with the consideration that the homeroom teachers were certified teachers. Data collection techniques in this study were observation using questionnaires and teacher interviews. As for data analysis techniques, researchers used the Miles and Huberman model, namely the data reduction stage, data display, and conclusion drawing.

## **3. RESULTS & DISCUSSION**

In collecting data, researchers not only conducted interviews but also observed certified teachers to find out the ability to utilise technology on certified teachers in the process of implementing learning at Samahani Elementary School in Aceh Besar. This observation was only carried out on 2 certified



teachers, namely class II teachers and class VI-a teachers. The following observations were made by researchers:

Discussion 1, Understanding of Learners. Understanding students is one of the pedagogic competencies that must be possessed by a teacher. There are at least four things that teachers must understand from their students, namely the level of intelligence, creativity, physical disabilities, and cognitive development. Second, teachers are able to identify the characteristics of students by paying attention to students during learning.

2nd discussion, Curriculum development. This is the process of planning and preparing the curriculum by curriculum *developers and the* activities carried out so that the resulting curriculum can become teaching materials and references used to achieve national goals. The two teachers at Samahani Primary School studied by the researcher, adjust learning to curriculum development, but there are differences in the curriculum used, the grade II teacher uses the SD independent curriculum, while the grade VI-a teacher uses the SD 2013 curriculum.

The 3rd discussion, Learning Design. It is a systematic procedure consisting of several components in a unity that is interrelated and influences to achieve certain learning objectives consistently and tested. Teachers also make learning designs that are in accordance with the material being taught.

Discussion 4, Implementation of Educative and Dialogical Learning. Educative learning is defined as learning that produces not only the basics of mastery of science and technology but also at the same time the cultivation of strong character and mastery of life skills so that they appear as human beings who are loving towards others. Where teachers can direct students to carry out spiritual attitudes such as prayer, gratitude, and respect for others.

Discussion 5, Utilisation of learning technology. Teachers utilise learning media when learning takes place. The use of technology in education and learning is intended to facilitate or streamline learning activities. In this case, teachers are required to have the ability to use and prepare learning materials in a computer network system that can be accessed properly.

The sixth discussion, Evaluation of the Learning Process and Results, is conducted to determine changes and formation of learner competencies. Class assessment is carried out with daily tests, general tests, and final exams. Class assessments are carried out by teachers to determine the progress and learning outcomes of students, diagnose learning difficulties, provide feedback, improve the learning process and the formation of student competencies, and determine grade promotion.

The 7th discussion, Development of Learners to Actualise Their Various Potentials. Teachers provide broad insights when learning takes place, be it by providing motivation, building a positive mindset, counseling services, and so on.

The 8th discussion, Conformity with Learning Objectives. The media displayed by the teacher must be in accordance with the learning objectives in order to achieve the target of the learning objectives. If the material taught by the teacher is different from the learning objectives then the teaching and learning process is said to be not achieved.

The 9th discussion, Suitability with Learning Materials. The media displayed by the teacher is by the learning material to achieve a teaching and learning process in the classroom, and also by paying attention to learning objectives, the learning process using technology will run smoothly.



10th discussion, suitability with the teacher's ability to operate it. When learning takes place teachers can use learning technology. The use of technology as a learning medium will clearly make the teaching and learning process effective and efficient because it can make it easier for a teacher to get or convey learning information and better help improve student understanding. Based on the results of the description and discussion, it can be concluded that the role of certification teachers in the use of learning technology has been seen. Where SDN Samahani teachers have used learning technology in the teaching and learning process. Also, the role of certified teachers in understanding the characteristics of students, curriculum development, learning design, implementing educational and dialogical learning, utilising learning technology, evaluating learning processes and outcomes, and developing students to actualise their various potentials has been mastered and implemented by teachers at Samahani State Elementary School.

#### 4. CONCLUSION

Based on the results of research on the ability to use the technology of certified teachers in the learning implementation process at Samahani Elementary School, it can be concluded that Samahani Elementary School teachers master the use of learning technology as certified teachers, where teachers must understand the characteristics of students, curriculum/syllabus development, learning design, implementation of educational and dialogical learning, use of learning technology, evaluation of learning processes and outcomes, and development of students to actualise their various potentials. With the use of media that follows learning objectives, suitability with learning materials, suitability with student characteristics, paying attention to effectiveness and efficiency, and teachers must be able to operate learning technology, learning objectives will be achieved. SDN Samahani Certification Teachers use learning technology as a tool in the learning process, namely, students become motivated in learning, this can be seen from the enthusiasm of students in receiving learning, students are more active and participate creatively in learning.

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