



ISSN:3026-0442

*Proceedings of the 1st International Conference on Education, Science  
Technology And Health (ICONESTH 2023 Universitas Bina Bangsa  
Getsempena, Dec 12-14, 2023, Banda Aceh, Indonesia)*

## **IMPLEMENTATION OF INFORMATION AND TECHNOLOGY (IT) BASED LEARNING IN THE MERDEKA LEARNING CURRICULUM AT SD IN THE SAKTI AREA**

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### **ABSTRACT**

This type of research is descriptive qualitative, namely research that describes a phenomenon that occurs in the educational environment related to the use of Information Technology (IT) and technology in schools. Discusses learning programs that apply information and technology (IT)-based learning that offer strategies, methods, and learning models for teachers and students. Scientific learning strategies that apply information technology and technology (IT) can be implemented in schools and developed outside schools or the wider area. As a result, access to educational resources becomes easier for SD students and teachers. In each academic year, SD provides a limited number of classes at each level, with various subjects. A thorough understanding of information and technology (IT) is required to implement curriculum-compatible learning, enabling it to be used to support a wide range of classes and disciplines. In order for information and technology (IT) to support the improvement of human resources in each subject, this study proposes an implementation plan for information and technology (IT)-based learning in the SD Sakti area.

**Keywords:** *information and technology (IT), strategies, methods and learning models,*

## **INTRODUCTION**

Education is an important aspect in the development of society and the state. As a developing country, Indonesia continues to improve the quality of education to produce quality human resources. One of the important steps taken is to formulate a Free Learning Curriculum. The Free Learning Curriculum is an effort to transform the curriculum which is directed at developing the competence and potential of students in accordance with the needs of the times. One approach that can enrich the implementation of the Free Learning Curriculum is by utilizing Information Technology and Technology (IT) as a learning tool at the Elementary School (SD) level. This article will discuss the implementation of IT-based learning in the Independent Learning Curriculum in SD Sakti. Information technology is one of the tools managers use to deal with changes that occur. In this case the change in question is a change in information that has been previously processed and stored in a computer (McLeod 2007; 71).

The Importance of Using IT in Learning Utilization of information and communication technology, especially in the field of education, can provide various benefits for students and teachers. Utilization of IT in learning at Sakti Elementary School is important because: Increases Interest in Learning: The use of interesting and interactive technology can motivate students to study harder.

In the teaching and learning process, there are two very important elements that must be met, namely methods and learning media. The choice of learning method will of course affect the appropriate type of learning media, although there are still many aspects that must be considered in selecting media. Educators must master the context or material to be taught whether it is suitable when presented with the selected media. The media has the function of instructing which information contained in the media must involve students either in their minds or mentally or in the form of real activities so that learning can occur and meet the expected learning objectives.

The development of the times will encourage many people to move forward and not want to be left behind. They all need a better education. As a result, both the quality and quantity of education cannot be ignored. Education must be carried out in a quality and equitable manner for all people. Thus, education which is already expensive, because it must achieve quality, becomes even more expensive because it must also serve quantity (Pusparini 2016). The role of IT is considered very important in the world of education. The education of a nation is a measure of the ability of a nation. Therefore, the use of IT is expected to improve the quality of education. The demands of education in the era of the industrial revolution 4.0 are for teachers to be more creative in

developing IT-based media, with the hope that they will give birth to superior seeds who can think critically and keep up with the demands of the times (Nasution 2017). What is meant by IT-based media is all media that use the help of computers and the internet. In the era of revolution 4.0, it was demanded that teachers and students be able to actively use computers and the internet.

In utilizing IT, it is also necessary to instill a sense of shame in students and very strict rules so that children: (1) Do not come into contact with pornography, (2) Do not engage in plagiarism, (3) Are not allowed to continuously consume games or game online. These three negative things from the use of IT must really be instilled in each individual student, so as not to damage the image of the nation's children, especially elementary school students. So, in the learning process through IT, students are not only guided to obtain information, but also to analyze the truth of the information. So that the information or learning resources obtained by students are not hoaxes and students do not completely consume the information they get.

## **LITERATURE RIVIEW**

Enriching Learning Methods: IT enables teachers to present learning materials in a variety of ways methods that suit students' learning styles. Access to a Wider Learning Resource: the Internet enabling students and teachers to access learning resources from around the world, expanding horizons and knowledge. Improvement of Technology Skills: Integrated use of IT in learning will help students develop essential technology skills in the digital age. Integrating IT in the Free Learning Curriculum. The integration of IT into the Independent Learning Curriculum in the SD Sakti environment can be realized through several steps: Adequate Infrastructure: Establish adequate technology infrastructure in schools, inclstable internet access and IT devices such as computers and projectors. Teacher Training: Conducting teacher training to understand and master the technology to be used in learning.

Development of IT-Based Learning Materials: Creating interesting and interactive IT-based learning learning content, such as learning videos, simulations, and educational applications. IT Usage Oversight and Control: Provide proper oversight and control over usage technology by students so that it remains useful and does not have a negative impact. Benefits of Implementing IT-Based Learning By implementing IT-based learning in the environment. The Independent Learning Curriculum at Sakti Elementary School is expected to provide various benefits including as: Improved Quality of Learning: Innovative and engaging learning will improve the whole quality of learning (Okmarisa, Darmana, and Suyanti 2016).

Enhancement of Student Skills: Students will have the opportunity to develop technology and skills digital literacy. Increased Competitiveness: Students will be better prepared to face challenges in the digital era and global era. Time and Cost Efficiency: The use of technology can help save time and costs in learning process. Integrating Information Technology and Technology (IT) into Independent Learning (Pertiwi, Atanti, and Ismawati 2018). The curriculum at SD Sakti is an important step in improving the quality of education. With use IT, learning is expected to be more interesting, effective, and relevant to the demands of society time. In its implementation, support and cooperation between the government, schools, teachers, and all stakeholders so that the goals of the Independent Learning Curriculum optimally achieved. The use of information and communication technology, especially Information and Technology (IT), in education has become the main focus in efforts to increase the effectiveness and efficiency of learning at various levels of education. This literature review aims to explore an in-depth understanding of IT-based learning and its impact on teaching and learning processes. The Role of IT in Education Various studies have shown that the use of IT in education can act as a tool and support for effective learning. IT can increase interaction between teachers and students, facilitate access to various learning resources, and activate students in the learning process.

## **METHODOLOGY**

This type of research is descriptive qualitative, namely research that describes a phenomenon that occurs in the educational environment related to the use of Information Technology (IT) and technology in schools (Muflihun et al 2021). The discussion in this study is as follows: The method used to propose an implementation scheme for Information Technology (IT)-based learning in setting learning methods according to the self- learning.

Curriculum is as follows: Identification of classes and subjects in SD. Identification of features in the use of IT according to student needs. Formulation of Information Technology (IT) learning implementation schemes based on subject groupings. Implementation of the scheme. From the schemes that have been prepared and tested, then each scheme is explained based on the results of the tests that have been carried out. The systematic description of the results and discussion follows the stages of the method described previously. The following is an explanation of the activities carried out at each stage in the method previously described. Identification of class administration and subjects in SD. Schools at the elementary school level basically have several classes at each level. For example, in elementary school, for class I there are classes I-A, I-B and so on according to the capacity of the elementary school. Based on these needs, it is necessary to identify Moodle features that can adopt classroom

management models in junior and senior high schools. Identification of features in Information and technology (IT) based learning.

## **DISCUSSION**

Each student has their own needs in mastering information and technology (IT), it is these learning needs that can be used as a reference for teachers in identifying learning based on student strengths and weaknesses related to the implementation of information and technology (IT) based learning. A group of students can be grouped into large groups or certain small groups in the implementation of learning according to the needs of each subject. The following is a grouping of students. What teachers can do:

### **1. Groups**

Groups can be used to group multiple users, both teachers and students. Groups can be used, for example for assignment purposes in each subject.

### **2. Homogeneous grouping.**

A set of groups can be grouped into groupings according to student development. The purpose of the grouping feature is to make it easier for teachers to provide information to students.

### **3. Heterogeneous groups.**

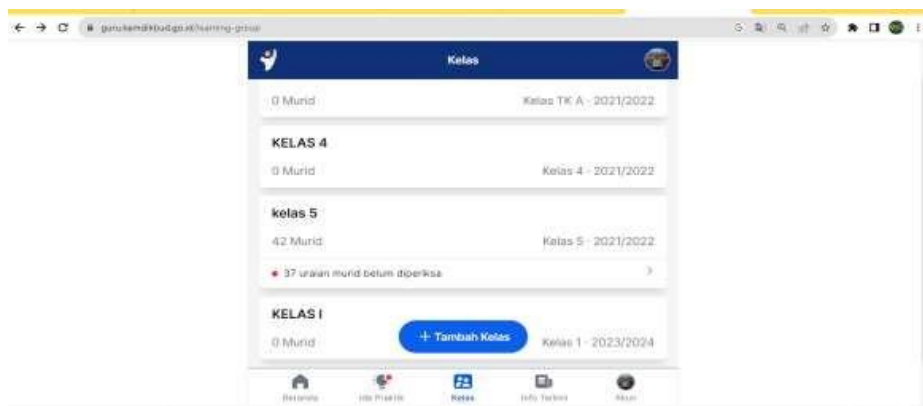
in scientific learning are groups that are formed according to learning needs that are made to make it easier for students to monitor their progress in certain subjects that have the goal of students being able to help with learning difficulties that exist in other students in the group.

Based on the application of information and technology-based learning (IT) in accordance with the self-learning curriculum at Sakti Elementary School, that the use of information technology and technology (IT) in schools is very important, especially integrating literacy skills, knowledge skills, skills and attitudes and mastery of technology. Through this concept students are given freedom in thinking to maximize the knowledge that must be taken.

Developing an information and technology (IT) based learning implementation scheme based on an independent learning curriculum

The preparation of an implementation scheme for technology and information-based learning (IT) can be done by mapping out some of the needs for implementing the technology features that have been discussed previously. At the basic level, subject needs can be met by using information and technology (IT) based learning strategies, methods and models. Then, subject groups can be put into categories that represent classes (I, II, III, IV, V, and VI).

To distinguish between class groups and so on, scientific learning strategies are used. The advantage of this strategy is that it is easier to manage, especially when students continue the next learning material.



### 1. Schematic Implementation

At this stage, the scheme produced in step 4.3 is implemented in an information and technology (IT) based learning scheme, namely the application of a class scheme in elementary schools. There are 6 classes, namely class I, II, III, IV, V and VI where each class has a subject. Each class uses different strategies, methods and models according to the subjects being taught. Each subject will contain groups of students in groups such as groups I-A, I-B and so on

Table 1. Table of mapping the needs of the implementation of information and technology- based learning at each grade level

level	Need	IT Feature
<b>LOW CLASS</b>	Class	Category Vidio and audio
	Subjects	playing
	Class Group	large group
<b>HIGH GRADE</b>	Class	TPACK
	Areas of Interest	Sub Category (Class)
	Subjects	HOTS
	Class Group	combination group or heterogeneous group

### 2. The Implementation Of Information And Technology (It) Based Learning In S

An overview of the implementation of information and technology (IT)-based learning implementation for students at every grade level in

elementary school which is part of the use of technology that can be applied in learning in each subject has strategies, methods and models that vary according to the material and planned learning objectives. Therefore, various efforts and support are needed so that the implementation of Information and Technology (IT)-based learning can be implemented and carried out, one of which is competent human resources that must be owned by teachers in elementary schools.

## CONCLUSION

Integrating Information AND Technology (IT) into the Independent Learning Curriculum at SD Sakti is an important step in improving the quality of education. With the use of IT, learning is expected to be more interesting, effective, and relevant to the demands of the times. In its implementation, it needs support and cooperation between the government, schools, teachers, and all stakeholders so that the objectives of the Free Learning Curriculum can be achieved optimally.

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Martin (1999), defines information technology not only limited to computer technology (hardware and software) used to process and store information, but also includes communication technology to transmit information.