ANALYSIS OF THE FACTORS Restricting THE APPLICATION OF THE INFORMATION TECHNOLOGY-BASED LEARNING IN SDN PANJANG WETAN I

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Abstract

This research was carried out in SDN Panjang Wetan 1 with subject teachers that add up to 19 people, this event will be based on research of rapid development of information technology era today. Children are the next generation of the nation that will be the next leader. In order to prepare the future of the nation's future especially with MEA felt the need to do information technology-based learning. Developments that cannot be unstoppable if the teacher doesn't move forward, then it will sink fed innovations in learning is indispensable in order for learning in accordance with the changing times. On the chance that either Google as a provider of the world's great technology provides the opportunity at SDN Panjang Wetan 1 to follow training to school teachers with Google Apps For Education (GAFE). Google Apps for Education is an information technology-based application developed by google and made available to the educational element. Research methods used in the analysis of the factors restricting the application of the information technology-based learning in SDN Panjang Wetan 1 is a case study. The data collection techniques interviews and question form. Our research results are gained on the factors restricting the title of the application of technology-based learning in SDN Panjang Wetan 1 is the use of technology-based learning, this is considered not yet fused with work, felt clashed with jobs, the existence of a policy banning the use of gadgets for elementary school children where there are still not ready to use the gadgets, the difficulty of child's supervision when connected with the internet.

Keywords: GAFE, Preparing MEA, Information Technology-Based Learning, Innovative Learning.

INTRODUCTION

This flow intensified globalization characterized by increasing technological development in various fields and provide a positive impact towards education in the learning process. The use of information technology in learning already should be used in teaching and learning activities in the classroom with the help of internet networking. So the learning activities will be more attractive and growing interest, liveliness and creativity of students in learning activities. The existence of the internet allows students to learn without being obstructed time and place because of the presence of information technology and communication, students can learn at any time, for example by making use of the facilities of email, chat, e-book, e-library and so on. All information and knowledge who want to note can be directly accessible without having to face to face with the source of the information. They can find out for themselves the information they need so that it does not rely on the information that was provided to teachers only.

By utilizing a network of internet, the learning process will be more effective and teachers can optimize student learning time by sending materials to students via email the day before the lesson is carried out so students can learn in advance the material to be learned tomorrow. This can help students prepare for their initial knowledge, so that at the time of learning activities taking place students more readily and will be created by the interaction
between teachers and students as well as students with students, with the internet we can access millions of sources of information is needed very easily in the internet there are enough websites that provide ingredients that are very interesting to be displayed and used in spaces of learning at school (Jamal, M.a, 2011:141-142).

The development of technology is inevitable and become a worldwide concern and it takes effort to keep up with current technology. Rapid technological development this encourages people to shift from conventional ways of more modern way. That is why humans are able to able to use and make use of various technologies, one of which is information technology. World Education is the main runway in the application of information technology, where citizens learn will get to know and follow the development of science and technology with the application of learning at the school that would later be applied in daily life so as not to be left behind by other countries. In an effort to avoid being left behind by other countries, certainly can be introduced to students through the utilization of internet technology in learning needs to be encouraged as one of the new innovations in the use of media teaching and learning resources. various applications and facilities are available in the internet that can be used to its full potential as an effort to improve the quality of learning. Information technology is the infrastructure (hardware, software, useware) system and method for obtaining, transmitting, processing, interpreting, storing, organizing and using the data to be meaningful (Warsita, 2008:35). Similar with the opinion and Latip Rianto (2011:14) explains that information technology is defined as the science in the field of computer-based information and the development of very rapidly. Whereas according to the Hague and Keen in Kadir (2013:2) information technology is a set of tools that help working with information and perform tasks related to the processing of information.

Information technologies marked by the birth of the computer with the device with a very quick development. Information technology has become a symbol of the wave of change i.e. change in a variety of fields that triggers people to enter a new era in various aspects of life. According to Bambang Warsita (2008:150-151) in general there are three information technology utilization or instructional computer and internet for education and learning, namely first, Learning about computers and the internet, namely the computer that can serve as a learning object, for example computer science (computer science). Second, Learning with computers and the internet, namely information technology facility learning in accordance with the curriculum of the school. For example pustekkom, the developed interactive multimedia CD programs for learning.

A variety of information technology can be used in learning activities at school, certainly requires a mastery of offender education i.e. guru to use and utilize a variety of such devices in an effort to increase the quality of learning in the classroom. The success of the integration of educational technology in the teaching and learning activities are complex and influenced by many different factors (Tearle in the Marwan, and Sweeney, 2010). Individual themes are divided into four factors namely openness towards technology, the attitude of teachers, knowledge and skills, as well as the workload of teachers. Various factors it shows when one or more of which does not support will cause the effectiveness of integration of learning impaired and even to fail (Abu Bakret al. 2008; Sweeney 2010).

To be able to go with the flow of technology in learning necessary appreciation of offender education in this respect is the direct contact teachers in the learning activities should be change to conventional learning patterns by using modern devices. Changes in the pattern of learning is indispensable to perform learning activities where renewal is no longer relevant with the development and needs of the students. The use of information technology is required to increase the effectiveness of learning that can enhance the learning outcome of students as well as students’ ability in using various technologies appropriately.
Many things can be used as a reason why the information technology is important. Because information technology is mastered, identified as bridge science that can connect a wide range of access to acquire knowledge and by using the internet access free to students can all information in the world just by accessing the internet. But in fact many factors become barriers to the application of information technology is not put to good use. One was the unpreparedness of the users in applying it in learning in school.

On a good opportunity also Google provides Google Apps for Education to schools in the Government town of Pekalongan. Google Apps for Education is an application owned and created by Google to educational institutions. This facility is provided free of charge to educational institutions. This utilization is already done in various countries throughout Indonesia own previous Google already facilitate universities both public and private.

The implementation of Google Apps for Education is quite good even at some universities. Now google is trying on a lower level of education in providing support. Google shared governance of the city of Pekalongan provide training to some schools from elementary, junior high school and Senior high School. Based on the above, the exposure of researchers interested in conducting research with the title an analysis of the factors restricting the application of the information technology-based learning with Google Apps for Education in SDN Panjang Wetan I.

RESEARCH METHODS

This study used a qualitative approach to analyse the obstacles the implementation of information technology-based learning in SDN Panjang Wetan I. Qualitative research is a method used to examine the condition of the objects which are natural. Qualitative research was conducted by matching between the empirical reality with the theory that applies by using descriptive method (Sugiyono, 2009) This research data obtained through observation and observation as well as the required documents by using a qualitative approach, taking into account the applicable rules in the rules of such research.

RESULTS AND DISCUSSION

As already expressed earlier that this study aims to describe the barriers to the use of information technology in learning in SDN Panjang Wetan I by analyzing the learning process from the standpoint of the fact and the application of information technology, where the results will be used to increase the quality of learning in every unit of education especially in elementary school.

The utilization of a diverse multimedia tailored to the characteristics and teaching material is already becoming a supporting factor in the success of learning. The success is inseparable from the power support both in terms of Human Resources, facilities, and facilities and infrastructure are available.

Teaching Media forms-based information technology that can be used by teachers to use Google Apps For Education. The application is a web browser based applications there is also on Android smartphones. This application is provided free of charge by google to educational institutions. The use of this application certainly requires a few things in its application. Among them:
1. A computer
2. Internet access
3. Android-based smartphones
Among the devices the most must-have internet access because it is the base of these applications with Cloud where the application connected to the internet. All integrated applications are slick by system users.

Things to do in this Google Apps for Education include:

1. Online Task
2. The work of the task group are integrated remote
3. Monitoring the performance of the work tasks the learners
4. Online Form
5. Reserved Online
6. Online Assessment
7. Making Learning Management System
8. Virtual Classroom

Most teachers SDN Panjang Wetan I already make use of computer media for carrying out a presentation by learning, but to use email and websites still rarely done. It is so unfortunate since by utilizing the website, blog or email can be used as a new learning strategy so as to make it easy for students to access knowledge. Based on the results of observation and interviews from related parties with several stages then it can be known to some of the IT implementation obstacles in learning, as follows:

1. Technical problem, i.e. the unstable electricity that can disrupt internet network connection suddenly severed so as to thwart all plans that have been drawn up by the teacher.
2. Skills which belonged to teachers who have not yet significantly to implement IT in learning, teachers teaching with multimedia feel burdened because it requires preparation and time to implement it, because before implementing a plan that had been drawn up need to be tested first before being implemented in the learning activities.
3. Competence of teachers is still very lacking in utilizing information technology due to the factor of age and also the skills to operate. The teacher thought it was difficult in the IT-based teaching with them is familiar with the learning media utilizing only conventional and methods discourse.
4. This Application where outside of the work which have to prepare other things than learning commonly implemented so that it becomes a burden.
5. The existence of a ban on the use of smart phones that connect to the internet from local government in the course of the execution of the application of learning. This is due to a case not yet prepared elementary school students using a device connected to the internet.

The observations of the researchers the most dominate is a component of the competency of teachers in the utilization of technology. Insight guru about information technology which is still minimal so as inhibit in the application. Teachers have an important role in the success of learning. Not to mention the existence of a ban on the use of Android Smartphones that connect to the internet to students by the local Government.

The development of increasingly sophisticated SCIENCE and TECHNOLOGY should be followed for the creation of the quality of learning. Various efforts were necessary in order to implement information technology-based learning, optimally one with increased educational qualifications educators, seminar or workshop self-development, and or start maximizing the utilization of IT in learning, starting with the easiest thing such as google plus to support learning activities, so that the process of adaptation to the use of social networking in learning becomes easier. If it is already accustomed to do then it is not impossible for the
future development of a website or blog to support the learning process becomes increasingly easy, and not less important is maximizing the infrastructure and facilities to support the utilization of information technology, introduce the students of information technology on the device so accustomed to learning using multimedia. Motivation is required from the employer in this case principal to teacher continue to unearth this information technology related knowledge. As well as educating and directing how the use of information technology that is right for them.

**SUMMARY**
The results of the research that the researcher get in SDN Panjang Wetan I can be concluded that:
1. The teacher has not been able to implement such facilities because it is still accustomed to conventional learning.
2. Learners not wise in the use of the technology behind their ban on the use of smart phones that connect to the internet.

**SUGGESTIONS**
1. The need for education and information technology use related directives currently wise to learners so it does not fall in a direction which is not good.
2. grant opportunities to educators to enhance your skills with training or workshopself development.
3. The teacher should familiarize product use information technology so that it becomes accustomed and will increasingly be proficient in its use. It is intended to further optimize the utilization of IT in teaching and learning activities because the era continues to grow until we are able to compete in the Asean economic community (MEA).

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