

IMPLEMENTATION OF EDUCATION MANAGEMENT INFORMATION SYSTEM IN THE LEARNING PROCESS AT SMKN 1 CIJULANG

Oleh

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Abstract: *This research describes the Implementation of Education Management Information System (SIMDIK) in the learning process at SMKN 1 Cijulang. Educational management information systems are developed to meet the needs of institutions / schools, where schools want in the learning process to use information systems in an effort to answer the challenges of the 21st century that require institutions / schools to develop management information systems (SIM) to create learning that is not monotonous and saturated for students in the classroom. This study uses qualitative methods using observation, interviews and documentation as data collection techniques. The results of this study show that the Implementation of Education Management Information System (SIMDIK) at SMKN 1 Cijulang in the learning process utilizing learning application systems namely Edmodo, E-Raport and Smart Board for Axioo classes in creating interactive learning is good enough. Supporting factors in the implementation of educational management information system in SMKN 1 Cijulang is the existence of a dapodic information system that is useful to register students, educators and education personnel (PTK), the support and cooperation from various parties in infrastructure or human resources in supporting SMKN 1 Cijulang as a school that implements digitalization system. The obstacles encountered in the learning process at SMKN 1 Cijulang include elderly teachers who have difficulty in using management information system (SIM) applications.*

INTRODUCTION

The industrial era 4.0 at this time of technology has a positive impact on every element of society to increase productivity and effectiveness in a job, especially in the field of education. Currently the government introduces education reforms that are closely related to the information systems needed in the development of the world of education.

The existence and role of information technology in the world of education provides a new innovation, but on the other hand the progress of information technology has not been balanced with increased human resources. These conditions encourage changes in various aspects that support in improving quality human resources.

In the world of education in the new era, education actors must pay attention to management information systems. Applications in the management of information systems are known as MIS (management information system) or SIM (system information management). Management information system (SIM) includes part of management science in which there is planning, organizing, driving, and supervision to achieve the goals that have been set through the utilization of human resources and other resources.

Based on the results of observations, at SMKN 1 Cijulang carry out education services through the management information system (SIM) in responding to all changes and developments faced in the global era, especially in the field of education, either in the process of teaching and learning activities, or in staffing administration services, infrastructure facilities, libraries, and finance.

LITERATURE REVIEW

Management information system (SIM) is a new breakthrough in the world of education. One of the influences in the use of management information systems (SIM) is on student learning activities. Before we discuss about the implementation of educational management information system (SIMDIK) in improving the quality of learning we must know what is called management information system itself.

A system is a set of elements that are interconnected and influence each other in one particular environment, Eti Rochaety (2015). A system is defined as a group of elements that are integrated to achieve a goal, Mcleod, R., & Schell, G (2004). A system is defined as a group of elements that are integrated to achieve a goal, Sutabri (2012).

The first thing to note in a system is the elements. Of course, each system has its own elements, the combination of which is different between one system and another system. Nevertheless, the basic structure remains the same.

Data that has been classified or processed or interpreted for use in the decision-making process is information. Processing systems process data into information or precisely process data from useless forms to be useful for the recipient, Anastasia Lipursari (2013:3). Information is very important in making decisions. If this information does not exist then a leader cannot make a decision. In addition to determining information decisions can also be an important data in improving the performance of an organization. Information can be likened to blood flowing in the human body, just like information in an organization that is essential to support the continuity of the organization's development, Rouna Paoki (2013:3).

In Abidin's opinion, Bryan J. Kaleb (2019) management can be interpreted as an effort to manage human resources owned to achieve the organizational goals that have been set.

From the definition of systems, information, and management can be concluded management information system (SIM) education is a combination of human resources and information technology applications to select, store, process, and retrieve data in order to support the decision-making process of the field of education. Therefore, the Management Information System (SIM) is very influential in running an organization / educational institution in order to run well and structured.

Management information systems are a collection of information system interactions that provide information for both managerial and operational needs, Lantip Diat Prasajo (2013). Utilization of management information systems in the field of education is often referred to as SIMDIK is needed in the management of education from the beginning of learning, administration, teacher facilities, student services (students). In addition, management information systems in educational institutions can also be a supporter of activities / activities as the management function consists of, the process of planning, organizing, leadership, and supervision among organizational members by using all organizational resources to achieve the goals that have been set.

According Irawati (2017: 7) the management information system component, that is;

1. Hardware, physical equipment that can be used to collect, enter, process, store, and issue data processing results in the form of information.
2. Softwar, a collection of programs used to run a particular computer or application on the computer.
3. Brainware, human resources are the most important part of the management information system component.
4. Procedure is a series of activities or activities that are carried out repeatedly in the same way.
5. Database is an organization of a set of interrelated data that facilitates the process of finding information, and computer networks and data communication.

METHODS RESEARCH

Looking at the phenomenon as researchers are interested in researching how the implementation of educational management information systems in improving the quality of student learning at SMKN 1 Cijulang. The method used in the preparation of this journal uses qualitative methods. Sugiyono (2017) Qualitative method is a research method based on the philosophy of postpositivism, used to examine the natural object conditions, (as opposed to experiments) where the researcher is a key instrument, data collection techniques are done triangulated (combined), data analysis is inductive / qualitative, and qualitative research results emphasize meaning rather than generalization. The study used data collection techniques through observations and interviews.

The method used in the preparation of this journal uses qualitative methods. Qualitative method is a research method based on the philosophy of postpositivism, used to examine the condition of natural objects, (as opposed to experiments) where the researcher is as a key instrument, data collection techniques are triangulated (combined), data analysis is inductive / qualitative, and qualitative research results emphasize meaning rather than generalizations.

The research site is the place where the research activities are conducted. This study took place in SMK Negeri 1 Cijulang Pangandran Regency. The data obtained from this study

was collected from primary and secondary data sources. The subjects of this study included the head of the secretary, teachers, staff, and students. The data collection methods carried out in this study are interviews, documentation studies, and observations. The research intends to understand phenomena about what the subject is experiencing holistically and by way of description in the form of words and language by utilizing various scientific methods. With the basis of the research, it is expected that this research is able to provide a clear, detailed and scientific picture.

Data collection methods:

1. Interview, in the interview conducted. In this study, it was an interview. In-depth with respondents covering principals, teachers, and students. The purpose of the interview is to seek information related to the implementation of management information systems in the learning process.
2. Observation, Observation technique in this study is by observing directly the implementation of learning carried out in SMK Negeri 1 Cijulang. The results of the observation can then be concluded. For what has been observed and can be used as a comparison between the results of interviews conducted with the results of observations whether there is conformity or not.
3. The documentation studies conducted in this study use methods documentation, namely by looking for data about matters or variables in the form of archives, documents and recordings of management information system implementation activities in learning in SMK Negeri 1 Cijulang

FINDING AND DISCUSSION

Basically the success in running the management we must maximize the information system to present a complete data so that it can be a consideration for all parties in managing an organization so that the management is neatly organized. Management Information System (SIM) is a system that processes and organizes data and information that is useful to support the implementation of tasks in an organization, Harianto, Slamet (2020). The purpose of this SIM is to make it easier for management actors to manage data that can be a reference for management actors in making decisions for the progress of an organization. In educational institutions or schools one of the management actors is the principal. The principal is a management actor who has the task of organizing, managing the school to run well and be well organized as well. Therefore, a principal needs accurate data by utilizing management information systems in managing the data or information obtained. So that it can be an evaluation material for decision making. The development of management information systems in educational institutions is needed, in order to answer the global challenges that are very identifiic with technology, therefore, every institution is required to develop management information systems that are able to provide maximum function in processing data or in the learning development process for teachers in improving the quality of student learning.

As an agency under the office of SMKN 1 Cijulang has implemented a management information system in accordance with current developments. So that it becomes a development that can help to realize SMKN 1 Cijulang as a school that has the vision of printing Madani people who are perfect human beings who uphold the values, norms and

laws supported by the power of faith and mastery of science and technology, one of which is implementing management information systems in the learning process.

Based on the results of interviews in the learning process of SMKN 1 Cijulang using the E- Learning application which is known as Edmodo. Edmodo is a breakthrough in the world of education which is one of the results of information technology development that helps and welcomes 21st century education which is a company that provides social media services to support online learning systems for education activists, such as teachers, students, students and lecturers. Within this platform, both teachers and students can interact with each other easily. Of course this will facilitate learning activities such as assignments, doing exams, quizzes and all learning activities. In addition, Edmodo can also encourage the learning process by teachers who apply the HOTS (Higher Order Thinking Skills) learning system, which is learning characterized by knowledge transfer, critical and creative thinking (critical thinking and creativity) and problem solving. In addition to e-learning, SMKN 1 Cijulang also has axioo classes that use smart board technology that can support more quality learning. Provide new colors so that students do not feel saturated in following learning in the classroom.

In processing student value data at SMKN 1 Cijulang using a management information system (SIM) which is often called the E-Raport application. With this application the teacher will have no difficulty in entering student value data, and the filing system is very awake. Teachers will also be easier to evaluate the achievement of student grades each semester. This E-raport application is an application developed by the education department in the development of information systems that are directly connected to dapodik.

The implementation of educational management information system (SIMDIK) has a positive impact on the world of education. Among them are learning is not monotonous so that students do not feel bored, students are not easily bored in following the learning, publications about schools will be easily conveyed, archiving will be neatly arranged, more effective, efficient and practical, saving funds spent on paper purchases. The negative impact caused, among others, interferes with eye health due to radiation emitted from mobile phones or other media devices.

The above efforts are a manifestation of the seriousness of SMKN 1 Cijulang in answering the challenges of the 21st century that require every school to develop a Management Information System (SIM) in the learning process in order to create quality learning and provide maximum service to the community in educating the nation.

In the application of education management information system in SMKN 1 Cijulang there are inhibiting and supporting factors in the application of educational management information system (SIMDIK). Supporting factors in the implementation of educational management information system in SMKN 1 Cijulang is the existence of a dapodic information system that is useful to register students, educators and education personnel (PTK), the support and cooperation from various parties in infrastructure or human resources in supporting SMKN 1 Cijulang as a school that implements digitalization system. The obstacles encountered in the learning process at SMKN 1 Cijulang include elderly teachers who have difficulty in using management information system (SIM) applications.

However, from various factors that hinder the implementation of management information systems, SMKN 1 Cijulang continues to improve with special guidance or direction from the IT team to teachers who have difficulty in running this Edmodo application

in order to maximize it properly.

Thus, it can be concluded that the supporting factors and obstacles in the application of management information systems (SIM) in SMKN 1 Cijulang are the availability of information system facilities and human resource constraints. Therefore, in supporting the implementation of educational management information systems must be encouraged by the presence of qualified human resources so that in their application can be maximized.

CONCLUSION

From this research can be concluded as follows:

1. Implementation of Education Management Information System (SIMDIK) in the learning process at SMKN 1 Cijulang using Edmodo application. Edmodo application is an application in which can do learning activities such as, assignments, doing exams, quizzes and all learning activities. while to manage the value of students at SMKN 1 Cijulang using the E-Raport application that is directly connected to Dapodik.
2. In the application of education management information system in SMKN 1 Cijulang there are inhibiting and supporting factors in the application of educational management information system (SIMDIK). Supporting factors in the implementation of educational management information system in SMKN 1 Cijulang is the existence of a dapodik information system that is useful to register students, educators and education personnel (PTK), the support and cooperation from various parties in infrastructure or human resources in supporting SMKN 1 Cijulang as a school that implements digitalization system. The obstacles encountered in the learning process at SMKN 1 Cijulang include elderly teachers who have difficulty in using management information system (SIM) applications.

REFERENCES

- [1] Anastasia Lipursari ,”Peran Sistem Informasi Manajemen Dalam Pengambilan Keputusan”, Jurnal STIE Semarang, Vol.5, No.1, (Februari 2013), Hal.3.
- [2] Dewi Bryan J. Kaleb, ”Penerapan Sistem Informasi Manajemen Dan Pengawasan di Kantor Pelayanan Pajak Peratama Manado”, Jurnal STIE Semarang, Vol.5, No.1, (Februari 2013) Hal.3.
- [3] Eti Rochaety.2015. “Sistem Informasi Manajemen Pendidikan”, Ed ke- 1, Jakarta : PT Bumi Aksara.
- [4] Harianto, Slamet.”Sistem Informasi Manajemen”, Jurnal Pendidikan,1 (January 2020)
- [5] Irawati, ”Pengaruh Penggunaan Sistem Informasi Manajemen Terhadap Kualitas Laporan Keuangan Pada PT. Telkom Kota Palopo ”, Jurnal Manajemen, Vol.3, No.2, (September 2017) Hal.7.
- [6] Mcleod, R., & Schell, G.2004.”Sistem Informasi Manajemen”.(H.Teguh, Penerjemah). Jakarta
- [7] Nur Rahmi Sonia, ”Implementasi Sistem Informasi Manajemen Pendidikan (SIMDIK) dalam Meningkatkan Mutu Pendidikan di Madrasah Aliyah Negeri 2 Ponorogo”, Jurnal Pendidikan,1 (January 2020)
- [8] Sugiyono.2017. “Metode Penelitian Kuantitatif, Kualitatif, dan R&D”, Ed ke- 26, Bandung : Alfabeta CV.
- [9] Sutabri, T.2012. “Analisis Sistem Informasi.Andi”. Yogyakarta.

- [10] Rouna Paoki,"Peran Sistem Informasi Manajemen Dalam Sebuah Organisasi", Jurnal STIE Semarang, Vol.5, No.1, (Februari 2013) Hal.3.

HALAMAN INI SENGAJA DIKOSONGKAN