

The Role of the Strategy of Information Technology to Increase Student Learning of Information Managementuniversity of Labuhanbatu

Deci Irmayani¹, Masrizal^{2*}, Ali Akbar²,Budianto Bangun², Mustafa Haris Munandar², Arman Harahap³

^{1,2}Fakultas Sain dan Teknoloji Universitas Labuhanbatu Sumatera Utara, Indonesia

³Fakultas Keguruan dan Ilmu Pendidikan Universitas Labuhanbatu Sumatera Utara, Indonesia

Abstract:- Information technology is very important in influencing organizational performance to win the competition. The role of information technology and one of the things that are high lead to demands for increasingly value provided by information technology in tutoring at the student level majoring in informatics management. Human needs related to technology development also have an impact on education, and this will lead to the emergence of a new paradigm in the education sector. This research uses the Luftman method and is carried out on RantauPrapat's University of Labuhanbatu rock harbor university campus. The study found that information technology and strategies in the learning process at one of the university campus of the harbor rock University of Labuhanbatu. Therefore, it is important to restructure strategies and systematic steps to prioritize improving the performance of information technology strategies and technical strategies that will be promoted by the Labuhanbatu university campus.

Keyword:- *Studen, Information Technology, Teaching and Learning Improvement.*

I. INTRODUCTION

Information technology (IT) is the important influence on the success of the organization to win the competition. The impact of the TI indicated by a significant effect on the response of strategic organization in the face of globalization. The alignment of the strategy between strategy information systems/technology business and business strategy can provide a solution to organizations now face the challenges of a competitive business. The development of the role of information technology and the increasing value of high investment led to increased demands will be the added value of information technology to the business. Changes in the environment outside the world of education, social environment, economy, technology, until the political requires that world education rethink how those changes affected him as a social institution and how it should interact with these changes. One of the alterations of the environment that greatly affect the world of education is the presence of information technology (IT).

Information technology is now used not only for one field or one aspect. The human needs associated with the development of technology also gives an influence on the world of education. The field of education at this time has experienced a very rapid progress compared to a few decades ago. Education has now lead to education that is supported by Information Technology. This is due to the nature of this technology which is very helpful in the learning process, even in the next few years every school will have Information Technology as a learning tool. This reason was stated because of the current Information Technology has become a necessity in almost every school. The Information Technology will be menyebabkan the emergence of a new paradigm in the education sector. The use of instructional media in this case utilize media information technology today is already very common. Because not only for a school that has a computer as a medium of information but it should be all schools already using the technology. Based on the background of problems and the identification of problem above, it can be made a boundary problem for keterarahannya the ultimate goal of this research, limitation of the problems that created that includes :

- System coverage built will only process the information on the learning strategies that exist on the campus of the university of labuhanbatu “ULB” RantauPrapat.
- The system improved learning will produce information about the strategy of information technology to the process of learning to students of information management university of labuhanbatu.
- The content of this learning strategy presented to students involved in the learning process who received either real or not real or better in theory and practicum.

As for the research objectives of this thesis are as follows:

- Design analysis of the role of the technology strategy information technology is dynamic in nature.
- Identify inventory data that will be entered in the design analysis article object in carrying out the process learning strategy improvement of the department of information management, university of labuhanbatu“ULB”RantauPrapat.
- To provide information and facilitate merekomendasikansecara right and real.

With the information Technology, expected may hard work done by the author during the creation of this can be obtained a lot of benefits. As for the benefits that the authors intent is:

- For the Chairman of the Foundation of the University of Labuhan Batu “ULB” RantauPrapat
- As consideration and input to the Chairman of the Foundation of the University of labuhan batu DR.Amarullah and as chairman of the University of Labuhanbatu Rantauprapat.
- Provide convenience to the staff, the educators of teachers in managing the improvement of learning at the University of LabuhanBatu.
- A media campaign against the campus and the department in accordance with the pattern of power performance of each department, so as to improve the quality of the interaction pattern of performance peraanan information technology.

For The Author

- Add knowledge and insight to the author of the making of information and the role of strategic information technology enhanced learning.
- Can add to the science by setting the knowledge gained in lectures on the fact that there occur in the field and as a means to establish and apply the theories that have been obtained from other sources so that it can be beneficial for those who need.

For Academic

- As additional information use the system information enhanced learning at the university of LabuhanBatu and as a material consideration to follow up on similar research as well as references in the journals portal of the University LabuhanBatu “ULB” RantauPrapat for similar research in the future.
- For Students The role of the strategy of Information Technology to increase student learning of information management, university of labuhanbatu “ULB” RantauPrapat.

II. REVIEW OF LITERATURE

❖ *Definisi Sistem*

In a simple, sustu system can be interpreted as sustu collection or set of elements, components, or variables that are organized, interacting, mutually dependent on each other, and integrated. Systems theory in general, which first outlined by the Knneth Boulding, especially pressing importance of attention to each part that make up a system. The tendency of human that gets the task of leading an organization is too focused on one component of the system of the organization.

A. *Understanding the Information*

Information is the result of processing the data so that it becomes the shape which is important for the recipient and have usefulness as a basis for decision-making that can be felt as a result directly or indirectly Information is very important for the management in decision making .Information is data that has been processed and is

beneficial for those who need it. The source of information is data. Data is a collection of numbers and characters that have a specific meaning and is taken from the reality or fact that occur on a site.

B. *Understanding of Information Systems*

System information marupakan a system that the goal is to produce information. The task of information system is to perform the data processing cycle. The data processing cycle (date processing life cylce) or also called with the name of the cycle information (information life cycle). The Information system consists of several components, namely input components, component model, component technology, component base data and control components.

The information system is a system within an organization that meets the needs of daily transaction processing to support the operation of managerial and strategic activities of an organization and provide certain outside parties with the necessary reports (the Sutabri, 2012:46).

C. *Information Technology*

The development of information technology meliputi all the tools and methods are integrated for use in capture or capture data, store, process, send or serves the needs of the information electronically into a variety of formats which is beneficial for sipengguna. The development of information technology has changed the concept of education is more advanced in the process of learning so that decisions seize opportunities and achieve objectives to be achieved by the students of dala pembelajaran that exist in the system.

D. *Personal Field Scientist*

In the field of education science is an expert in the field concerned both in real and opinion. Data processing at this stage is the stage where the data is processed in accordance with the procedure. In the field of database management is a software designed to help in terms of maintenance and utility of data collection in a number of large. But in a simple system consisting of multiple files. The success and progress of the college can also be seen from the quality of the college. the application of competency-based education is the decision of the government in this case the department of national education as a national effort to improve the quality of education. Improving the quality of education is the main requirement to produce human resources capable of acting globally. Therefore the program to improve the quality of education should be a priority for the development of all the regions.

E. *Learning College*

The utilization of information systems for each internal activity in the college will also be a factor of success and progress of the college. A lot of things that can be done with information systems such as academic information data set study schedule teaching lecturers, students, and value students.

With the existence of information systems also greatly facilitate the universities to produce information related to the above and facilitate all the activities of the college related to data processing. Information obtained from the information system (information system) is a system within the organization that meets the needs of daily transaction processing to support operational activities of both the managerial and specialized activities strategy which is able to provide reports in the form of information activities on the interested parties. In the process of pembelajaran for the children of the nation should also be prepared prosperity in providing the most information dipendidikan. Indonesia was among others, recognize the improvement of quality, equity of educational opportunities, and relevansi education with a national builder thus the application of a technology in education will be very likely to occur large-scale changes in teaching and learning interactions between learning sources with the offender learning.

III. METHOD

Methods the research conducted for manufactured system related information is :

➤ Identification Of Problems

One purpose and benefit of research is the author detected in the environment the problem is that there are way pa used to transform from teacher to teaching participants? And how is the best way.

- Observation (Observation) is performed by observing the object being studied in this case is information technology in the form of information system applied in higher education.
- Literature (library Research) using books, previous research and journals related to the topic in this study

IV. RESULT AND DISCUSSION

The implementation of a teknologi dalam education will be very possible to happen a massive change in teaching and learning interactions between learning sources with the offender learning.

The problem pokokmyang suffused the current development of education in the development of both national and international in general the application of information systems in education is expected to do the following:

- Can help,melengkapa and replace the task of teachers when necessary
- Can spread the information widely uniform and quick.
- Can add to the attractiveness in the process of e-learning learning.
- Can support the learning activities general public or students.

No	Institutions	Faculty
1	University Of Labuhan Batu	Faculty of teacher training and education science Lecturer Personal (E-learning)
2	University Of Labuhan Batu	Faculty of law Lecturer Personal (E-learning)
3	University Of Labuhan Batu	Faculty of science and technology, Lecturer Personal (E-learning application in information systems)
4	University Of Labuhan Batu	faculty of economics and business Lecturer Personal (E-learning)

Table 1:- Some faculty my labuhan batu applying information systems technology learning

Some faculty regard the process of learning e_learning applied by the campus of the University of labuhan batu



Fig 1:- Home e-learning ULB

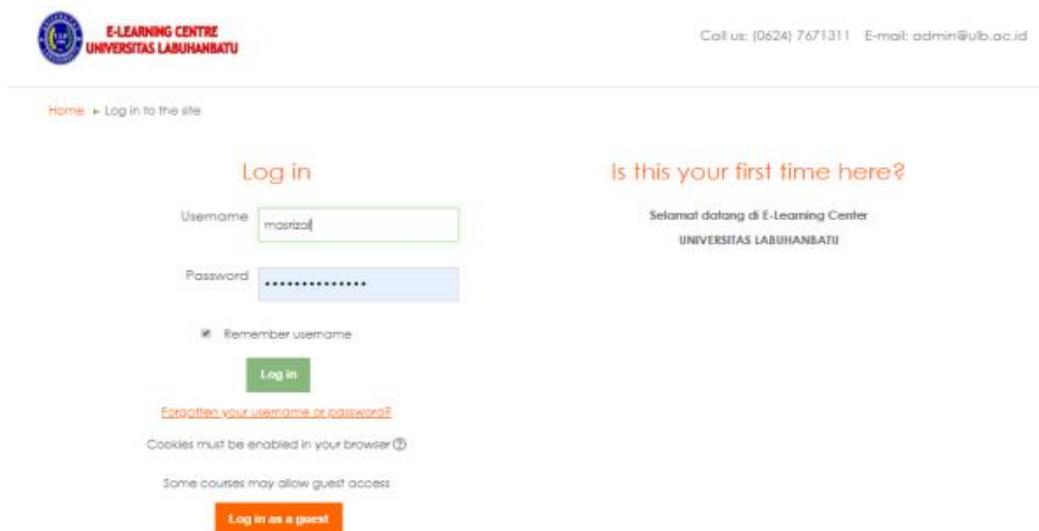


Fig 2:- Admin enters porlap e-learning University of Labuhanbatu

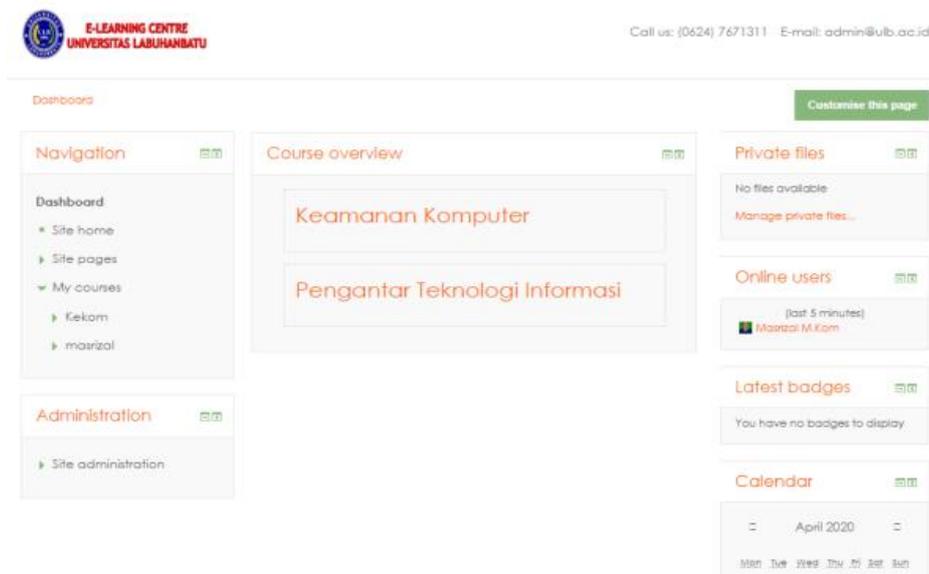


Fig 3:- Choose the Destination course the process of learning in e-learning.

So the benefits of higher education university of labuhan batu is from the use of the academic information system also vary, ranging from the learning process until the processing of the data in the index of student berperestasi. then it can all be done in a more effective and optimal use of information systems

V. CONCLUSION

Learning is a form of search knowledge that is used in science. Learning in academic education as a branch of the science, the technology that has been obtained by the learning which he knows One means of support referred to is the presence of an information system is expected to meet the needs of the user will be learning information that is applied in the campus of the. The discussion of the results has been described the authors conclusions include :

- The information system is that can be mengintegritasi with komputerrisasi which is the result of the

development of information technology arrives is to manage well the data are processed to produce information that is accurate and up to date

- Slowly education in the region of north sumatra is progressing to systems that can be oriented on the campus or college in the region of north sumatra.especially now in this information technology and telecommunications have allowed the creation of a learning environment brhubungan with a network that provides resources and services electronic learning to the students. Because it pembelajaran conventional can provide a way of learning alternative new said technology.
- The development of information technology also is influence on activity of higher education, especially in the activities of the academic. It can be seen that more and more universities are already using the system information in academic activities

REFERENCES

- [1]. Wahana Komputer, 2009. PHP Programing. CV Andi Offset, Andi : Semarang
- [2]. Indra Kanedi, Yupianti, Ferry Hari Utami, 2013. Media Sarana Promosi Makanan Khas Bengkulu Berbasis Website Menggunakan Script PHP (Vol.9, No.2)
- [3]. Abdul Kadir, 2002. Penuntun Praktis Belajar SQL, Andi : Yogyakarta
- [4]. Jogiarto, 2005. Analisis Dan Desain System Informasi, Andi : Yogyakarta
- [5]. Eva Solita Pasaribu, Zulfi Azhar, Wan Maritul Kifti, 2014. Pemasaran Jamu Tradisional Menggunakan E-Commerce (Vol.1, No.1)
- [6]. Eka Iswandi, 2015. Sistem Penunjang Keputusan Untuk Menentukan Penerimaan Dana Santunan Sosial Anak Nagari Dan Penyalurannya Bagi Mahasiswa Dan Pelajar Kurang Mampu Di Kenegarian Barung – Barung Belantai Timur (Vol.3, No.2)
- [7]. Yadi Utama, 2011. Sistem Informasi Berbasis Web Jurusan Sistem Informasi Fakkultas Ilmu Komputer Universitas Sriwijaya (Vol.3, No.2)
- [8]. Ermatita, 2016. Analisis Dan Perancangan Sistem Informasi Perpustakaan (Vol.8, No.1)
- [9]. Jogyanto, 2008. Siklus pengolahan data sistem informasi, Andi : Yogyakarta
- [10]. Jhonasyah, M. Humaidi, Abdul Hafizh, 2014. Design calculation of the square beams with the use of PHP (Vol.2, No.1)
- [11]. A.S-M, Shalahuddin, 2014. Rekayasa Perangkat Lunak DBMS (Database Managemen Sistem), Andi : Yogyakarta
- [12]. Tata Sutarbi, 2012. Analisa Sistem Informasi, Andi : Yogyakarta
- [13]. Tata Sutarbi, 2012. Konsep Dasar Sistem Informasi, Andi : Yogyakarta