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FAKULTAS EKONOMI DAN BISNIS

# PROCEEDING

*DIGITALS ECONOMIC CHALLENGES*



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Accounting (ICOEMA) 2021**

**"DIGITALS ECONOMIC  
CHALLENGES"**

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**"DIGITALS ECONOMIC CHALLENGES"**

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**ACADEMIC INFORMATION SYSTEM (SIA) AS A MANAGEMENT  
INFORMATION SYSTEM TO IMPROVE THE PRODUCTIVITY AND  
QUALITY OF EDUCATION**

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**Abstract**

In the era of globalization, there is a change of mentality in the confrontation with the world of commercial competition and the emergence of new mentalities in higher education institutions, which leads to the establishment of commercial competition characterized by changes in the economy and the development of information systems, in order to also have an influence on competition in the world of education in universities, increasingly competitive. Each university must have added value in order to compete with other universities. The high level of Community needs for formal education makes universities one of the strategic sectors capable of producing quality human resources. Success in universities is determined by the quality of service to create a productive management information system. Quality knowledge services can be evaluated by increasing productivity in this regard, are teachers and students. In order to increase customer satisfaction and be competitive in the era of globalization, and to achieve higher benefits, every university needs a good academic information system (AIS) to offer students administrative comfort to offer the satisfaction of the users of the management information system.

**Keywords: -**

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**INTRODUCTION**

The development of information systems in business activities and organizations is necessary to improve the efficiency, productivity and competitiveness of enterprises in the era of globalization. The same applies to the world of education. A market-oriented academic strategy is needed for a formal education institution, especially higher education, so that it can be competitive in the world of education. All the services and needs of the students of the teachers (teachers) can thus be met. One of the main factors of this strategy is the development of Academic Information Systems (SIA), which provide the Management Information System (SIM) that support the increasingly competitive competition of universities. The development of information technology, particularly in Indonesia, is very dynamic. These developments certainly have repercussions in all areas such as the economy, health, social affairs and, of course, education. (Cholik, 2017).

The Management Information System (SIM) can be defined as a collection of interactions between the information systems responsible for data collection and management in order to provide useful information at all levels of planning and control activities. Some support the SIM, the role of information technology (IT) in the information system (IS) has changed considerably. Today, information technology is not only used as a tool for organizing activities, it has become an organizational strategy to achieve objectives. An academic institution is an academic organization that uses information technology to design different business processes in it. This form of organization has its own incomparability, so the form of the necessary information system must also have its own character.

The use of information technology is also pervading the world of education, particularly higher education. Information technology offers opportunities to transform and improve the productivity of higher education. One of the products of information management is the website-based academic information system (SIA) SIA offers students' comfort in online university activities of higher education management. Examples of SIA governance in universities are: krs student occupancy process, KRS and KHS information, academic transcripts, information on curricula and exams, information on university attendance, summary of SPP payments, details of fees for the current semester, information calendar of academic activities and user menu (Login, Change password, profile update), etc. One of the universities that implements SIA is the Islamic University of Kalimantan Muhammad Arsyad Al Banjari.

On this basis, there are five key performance indicators that must comply with the minimum standards for the management of eligibility criteria, namely:

- 1) The implementation of higher education programmes such as systems and mechanisms of action;
- 2) Infrastructure such as land, buildings, equipment and other facilities;
- 3) The financial structure, such as revenue, expenditure and the use of appropriations;
- 4) Human resources such as the student recruitment system, the recruitment and development of teachers and other auxiliary staff; and
- 5) Information such as internal online connectivity through good management information system.

## **LIBRARY REVIEW**

### **Basic System Concepts**

A system is a collection of data and information that has real meaning and value for their users. A system consists of integrated parts or components that have a purpose. Three elements must belong to a system, namely: (1) Input / input, information derived from processed and verified data, (2) Processing / processing, a series of commands or instructions to be followed by all users involved in the information system and (3) Output / Output is an information system that generates information intended to represent the end result for the user. According to Sutabri (10:2012), a system is a set or a lot of elements, components or variables that are organized and interact with one another.

### Academic Information System (SIA)

The information system is developed according to the needs of the user. This means that there are many types of information systems for different purposes. The development of information systems in the field of education allows users to carry out online academic activities, called Academic Information Systems (SIA). SIA online aims to improve the academic management of students in each faculty that was previously managed manually. In this case, it should be possible to coordinate information resources concerning students, teachers and staff in an academic and student manner. Sia online should also provide accurate, rapid and precise information which, at the end of this process, can reduce time by not improving the quality of the information and by producing more efficient results in the presentation of information to all parties.

Developments in the use of SIA Online can be viewed via the Internet. SIA has important functions such as academic administration, reference data management, academic data management, report management, print document management, data management and administration/user.

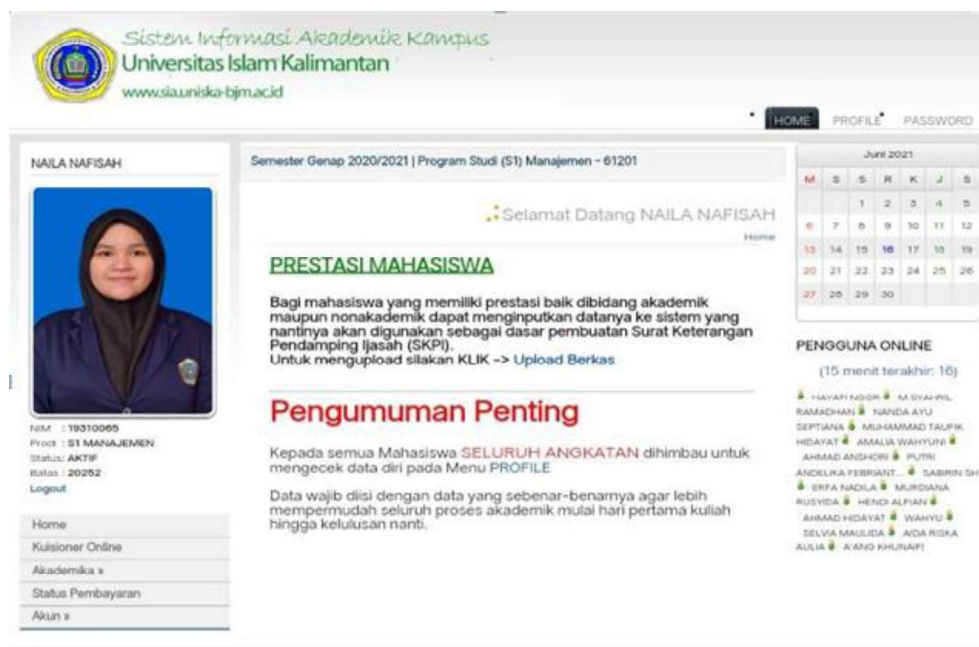


Figure 1. Academic Information System Display

In this study, researchers focused only on data recorded in the field of academic data management, menus such as KRS filling for students, KRS and KHS information, academic transcripts, course information and exam plan, information related to attendance at courses, summary of SPP payments, details of current semester fees, information about the calendar of academic activities and the user menu (Login, Change password, profile update).



### Management Information System (SIM)

The information needed at all levels of management is obtained through the implementation of a good information system in a company. The SIM is a collection of information systems that interact responsibly to collect and process data and provide information at all levels of management in control and planning activities. Three main elements or activities in the information system, namely: 1) receiving data (input); 2) process the data (calculation, merging of data elements, updates, estimates, etc.); and 3) obtain information (output). This is a principle for manual or electronic information systems through the computer media.



**Figure 2. Information Systems**

The management information system aims to provide information in the calculation of the costs of goods Services, products and other management purposes are supposed to be used to provide information in planning, monitoring, evaluation and continuous improvement, including to provide information for decision-making. (Rusdiana and Irfan 2014).

The advantages of the management information system (Widyanti, 2006) are as follows:

- 1) Improve the quality of human resources
- 2) Improve the effectiveness and efficiency of data accurately and in real time.
- 3) Facilitate the planning, training, monitoring and delegation of management work.
- 4) Increase productivity and cost savings in a given organization.
- 5) Develop an effective planning process.
- 6) Determine the investments that will be sent to the information system.
- 7) Improve productivity in system development and maintenance applications.
- 8) Identify skills needs to support information systems

The use of a good management information system will add value to the management and learning process in universities and schools. The use of the management information system is expected to improve the productivity and quality of training..

When implementing the universitas management information system, it is said that it is good and beneficial that this information system offers students, teachers and employees comfort in the use and use of facilities according to their respective needs, especially at this time of the appearance of the Covid 19 virus, not only in Indonesia, but in the rest of the world, so the role of technology-based information is indispensable.

With the management of information systems and ongoing evaluation by information systems, the key to the management domain is to process and shake up data in the form of information used to support decisions. The current driver's

license is made to help management make efforts to evaluate all management activities in the course process in order to improve the quality of training (Agustiandra & Sabandi, 2019)

. Improve the quality of teaching in the decision-making process with regard to educational institutions or universities, including the sharing and feasibility of courses, the sharing of teaching tasks, care, etc. Thus, a driver's license that is believed to be responsible for the availability of data, so that it is no longer done manually, offers comfort to students and teachers who relate to courses at a university, allowing the courses to function well (Lipursari, 2013).

## **METHOD**

### **Types of Research**

The nature of the research used is of descriptive quality in trying to know the objective conditions and to describe how the Akademik Information System (SIA) provides comfort to the management information system used by UNISKA MAB and knows the problems that arise when using the system.

The approach used in this study is qualitative by considering the results of phenomena that occur directly in certain social groups or individuals in accordance with the objective of the research, in order to have an idea of the problems faced by students, especially as users of SIA and in management, who receive the necessary data or information.

This study used research methods to obtain information systems in the management of higher education, as well as problems encountered in academic information system activities. Today (2000), it classifies 3 types of research, namely: 1) frontier research, i.e. research, which aims to clarify problems; 2) descriptive search, search for descriptions of objects; and 3) provocative research (explanatory research), research to answer problem formulations.

### **Location and time of search**

This research was conducted at the Islamic University of Kalimantan (UNISKA) MAB, Adyaksa Street No. 2, when the research was conducted on Thursday, June 17, 2021.

### **Population**

This study selected populations that had a close relationship with the problems studied. Pawning is all that can be used to draw conclusions (Cooper and Schindler, 2001). The population of this study is all students and operators of SIA UNISKA MAB.

A sample is a population component that is eded by a research unit that provides information on the entire population (Cooper and Schinlder 2001). The selection of samples in this study with interviews with stakeholders. The population is grouped according to all the faculties of UNISKA MAB, then is interviewed by each group. In this case, a live interview with the Manager of the Management Information System

#### Instruments

The instrument used in this study is an open-ended list of questions. The busiest question to get information on the problems encountered by respondents in the framework of the UNISKA MAB Academic Information System (SIA).

#### Data collection and analysis

The analysis of data from the collection of data in the field is the subject of a descriptive quantitative analysis in order to obtain information on the trend of the phenomenon experienced. Based on the results and discussions, conclusions were drawn on all the results of the implementation of the research activities, which became research samples and formulated policy proposals based on the results of the research carried out to improve the productivity and quality of education at UNIKA MAB.

The number of UNISKA students active for bachelor's programs is 24,849 people and there are 802 people for master's programs.

**Table 1. Number of UNISKA Priode Students in 2020/2021**

No	Faculty Name	Courses	Student Number Study Program
1	Faculty of Social and Political Sciences (FISIP)	Communication Science	1.022
		Science of Public Administration	1.753
2	Faculty of Teacher Training and Education (FKIP)	English Education	559
		Guidance and Counseling	360
		Chemical Education	66
		Sports Education	343
3	Faculty of Economics (FEKON)	Management	5.110
4	Faculty of Agriculture (FAPERTA)	Farm	323
		Agribusiness	634
5	Faculty of Islamic Studies (FSI)	The Economic Law of Shari'ah	276
		Shari'ah Economics	719
		Madrasah Ibtidaiyah Teacher Education	455
		Mechanical Engineering	877
		Civil Engineering	1.141

6	Faculty of Engineering (FATEK)	Electrical Engineering	345
		Industrial Engineering	83
7	Faculty of Public Health (FKM)	Public Health	2.069
8	Faculty of Law (FH)	Legal Science	3.204
9	Faculty of Information Technology	Informatics Engineering	4.891
		Information Systems	619

**Table 2. Post-Graduate or Master's Program**

No	Program Studi	Jumlah Mahasiswa
1	Farm	27
2	Management Economics	390
3	Communication Science	140
4	Science and Public Administration	92
5	Education Management	153

## **RESULTS AND DISCUSSION**

Function of implementation of Management Information System on UNISKA MAB Student employees

- a. Facilities, infrastructure, and supporting Management Information System which includes filling krs students, information KRS and KHS, academic transcripts, information on lecture and exam schedules, information on college attendance, recap of SPP payments, details of current semester costs, calendar information of academic activities, and user menu (login, change password, profile update).
- b. SIA computer application (Academic Information System) as an application used by students and lecturers to fill in the data required by the Academic section.

Function of the implementation of the management information system on UNISKA MAB Student staff :

1. Institutions, infrastructure and management information system, which includes the filling of krs students, KRS and KHS information, academic transcripts, information on course and exam programs, information on university attendance, summary of SPP payments, details of current semester fees, calendar information of academic activities and user menu (login, password change, profile update).

2. SIA (Academic Information System) computer application used by students and teachers to fill in the data required by the academic section.
3. The SIA (Academic Information System) application can help BAK staff to identify or not active students and facilitate students' knowledge of the curriculum, which also concerns the academic information that students need during their time as students, and facilitates the occupation of grades and knowledge of student activity during the course period.
4. Student activity can also be seen in this application, so everyone in the BAK section can be monitored, including with regard to SPP payments that are controlled by dpat here. In addition, the SIA application is connected with the Bank and also the respective Faculties, making it easier for academics to monitor students who are active or who are not.
5. By combining the ASA and the bank, it is also easy for the finance department to monitor the number of student payment transactions per new academic year or semester.
6. With the data obtained at Sia, the administrative service makes it possible to draw up reports each semester on the number of active students in agreement with the faculty and its main subjects. It is therefore not necessary every time to write a report that must manually open or register active students.
7. For sia students, the online application is also ideal for learning about academics and courses without having to go directly to campus.

Advantages and limitations of the implementation of the management information system, namely the academic information system (SIA) at UNIKA MAB, namely:

1. Benefits

- 1) Service for students becomes faster;
- (2) obtain more accurate information and data from AIS;
- (3) facilitate and accelerate the monitoring of student information;
- 4) Facilitate the creation of data on the student activities of BAK staff;
- (5) facilitate the division of labour within the BAK and financial division;
- (6) make student information reports easier and faster;
- 7) Does not require a lot of work;
- 8) For students to get academic information without having to go directly to the campus.

**Constraints**

1. Internet outages are frequent and there are also problems with campus servers.
2. Students will find it difficult to access AIS as well in places where the internet is less stable.
3. Errors sometimes appear in applications when students and teachers simultaneously use the UNISKA MAB SIA application.
4. Technical problems are often problems such as unorganized cables that make the internet connection unstable. Some students often have difficulty accessing newly updated applications.

5. In the event of a change in the university's application system, access to the sia application is hindered by students or teachers.
6. It is not possible to access student data before using the SIA application, as SIA UNISKA MAB was only implemented in 2014.
7. When they provide information between university operators and faculty operators to help students, they are often less communicative and the lack of updating of information leads students to receive information about academics too late.

Supervision during the implementation of Management Information System on Academic Information System (SIA) at UNISKA MAB.

1. Any activity in the SIA input is directly controlled by the Director of the Academic Office of UNISKA MAB, assisted by university operators.
2. Any student or teacher who uses sia (Academic Information System) registers with a specific code which is the username or password. For students who use the Student Parent Number (NIM) and NID for teachers. The activities of students who access sia apps are monitored by each faculty.

**Table 5. Differences Before and After SIM Implementation**

<b>Before Academic Information System On Line</b>	<b>Application-based SIM Academic Information System (SIA)</b>	<b>After Application of Sim based on Academic Information System Application (SIA) On line</b>
Academic management is done manually meaning that it must come directly to the campus		Academic management can be done at home using SIA online.
The process of making academic reporting is done by taking a lot of time waiting for the presence of students.		The process of creating academy reporting doesn't take much time.
Involve many BAK employees to report and file student files.		Involve fewer employees to report and take care of student files.
To know the academic progress of bak employees must open the student entry file and sort one by one.		Employees know the academic progress of students by simply opening the application without having to open the student entry file.
In entering student grades are usually inputted by faculty operators thus slowing the entry of student grades		With an application that can be accessed by lecturers so that the value can be directly inputted by the lecturer concerned so that the value can quickly enter.
In monitoring student progress more slowly so that the role of supervision can be realized less.		BAK employees are easier to monitor the progress of students simply online from the system.
The Surveillance System is carried out by the General Sub-Section of the University.		The Surveillance System is carried out by the General Sub-Section of the Academic section.

For students to know academic information must come directly to the campus	Simply at home students can already know academic information.
If there is an important announcement students lack updates because of the slowness of information delivered.	If there is an important announcement very quickly obtained by students.
In the process of payment and the amount of payment for spp etc, it must be asked first to the academy section.	In the payment process and the payment amount for spp etc, it can already be accessed in SIA
The unconnected bank and SIA make it difficult for academic staff to monitor active students.	The connection of the Bank and SIA makes it easy for Academic Staff to monitor active students.
To know the schedule of lectures and courses that must be taken in the charging KRS students must come to campus.	To know the schedule of lectures and courses that must be taken in charging KRS is easier to know just by opening the SIA application.
In the input of courses taken students have to wait for the campus operator so that they have to wait in line so that the academic process is slower.	In the input of courses taken by students are done by themselves so that the academic process is completed faster.

Source: UNISKA Academic Bureau

The implementation of the management information system using the online study information system (SIA) for students and teachers UNISKA MAB is a system that facilitates the work of BAK and financial agents in the management of student documents, the receipt of payments and the processing of reports The student activity also serves to offer comfort to all parties, it is very important to facilitate the processes and quality of training in higher education. The Committee on Employment, Health and Safety, Health and Employee Performance Support Devices in the use of software applications via the Online Academic Information System (AIS) directly created by the IT department of UNISKA MAB under the supervision of the Director of the Academic Office. The SIA application was developed to simplify procedures in the academic management process of student issues.

UNISKA MAB strives to make the student electronic system work well. Can also be seen from the electronic system in the form of fees for students, KRS and KHS information, academic transcripts, information on course programs and exams, information on university attendance, summary of SPP payments, details of the cost of the current semester, information calendar of academic activities as well as user menu (login, password change, profile update), it is useful to provide all the information about the students. As the interview results informant said, the SIA app is used by students to record the results of academic confirmation, so there are historical data that can be a tool to measure the productivity of students in performing their training at university. As the interview results informant said, the SIA app is used by students to record the results of academic confirmation, so there are historical data that can be a tool to measure the productivity of students in performing their training at university.

The application is connected to the internet which only BAK employees, operators, students and teachers can access using a connection system, so it cannot be accessed by outsiders. The use of information technology is intended to support the implementation of management information systems within an organization. In this case, the role of computer equipment in the form of computer hardware, computer software, data management, network technology and telecommunications, including the World Wide Web (Laudon and Laudon, 2013:52).

In this study, researchers found several IT tools that support the management information system implementation functions at UNISKA MAB:

- 1) Computer equipment. Computers are a way to run software.
- 2) Computer software is software used by employees for data processing. The Academic Information System (AIS) is an application that processes student and teacher data. Data Management technology device to store data information of students and lecturers provided by UNISKA MAB and data storage in the form of servers. All processed data information is stored at the University.
- 3) Internet network and telecommunications technologies or interconnected communications networks. Internet connection to the UNIKA MAB server in the data store. The internet is used for management to control the process and results of the processed data information.

The differences before the implementation of the management information system and after the implementation of the management information system in the form of the academic information application (SIA) in UNISKA MAB showed a significant difference. In the past, the limitations of the information support functions implemented in UNISKA MAB have resulted in the flow of information not being smooth and punctual, so that the data processed by BAK staff is also slow. For example, the data of active students or sufficient conditions to follow justice can be monitored online in the SIA.

Monitoring also continues to be carried out through manual monitoring methods, which limits monitoring and is not subject to in-depth monitoring. With the implementation of the management information system now, which has the quality of an easy-to-use information system for students, so that the information obtained by BAK staff increases productivity, it is also a way to improve the quality of universities. Implementing the management information system using this Online Application SIA with technology can achieve the goals of the organization without consuming enough energy to provide maximum, efficient and efficient service for students.

## **CONCLUSION**

- 1) The management information system implemented in UNISKA MAB is useful for providing information of all students useful for management through an academic information system (SIA ) providing student data.
- 2) The main cause of the work is less productive and efficient because of the slowness and imprecision of the information received from staff. With the implementation of the management information system, employees in the



Bak sector get a great advantage in work over the manual system and even students do not need to come to the campus to get information courses can only be done at home. All student activities such as krs student filling process, KRS and KHS information, academic transcripts, information about programs and exams, information about university attendance, summary of SPP payments, details of current semester fees, information about the calendar of academic activities, as well as user menus (login, password, profile updates), etc., are already connected via the academic information system internet.

- 3) There are some barriers to the online application of AIS. On the campus operator, faculty operators and students in the event of internet disruptions. The maintenance of the information system is a job that must be taken into account for universities. To understand and work with application-based systems, specific training is required for operators who run their operating systems. Uniska MAB, one of the universities, has however provided operators that serve as technical monitoring and enforcement, which makes it possible to quickly solve the operator's problems.
- 4) Supervision is well done. Every student who uses must enter data and enter their student parent number (NPM) and password before being able to manage sia online, which is monitored by the General Sub-Division/BAK, in order to minimize the possibility of abuse. If a data protection breach is recorded on the server, the university operator will easily identify the perpetrator of the infringement..
- 5) In the application of AIS online offers convenience for the management information system in order to obtain information that can be used by employees so that the data obtained can be obtained quickly. Work activities are also carried out by several staff members, as well as by university operators and other BAK staff, in order to be more efficient and effective, which should improve the productivity and quality of higher education.

**Suggested Advice:**

- 1) The study of the computer equipment and applications used must always be carried out in such a way that it is known what needs to be updated to obtain the maximum function and quality of the application, the planning of the implementation of the LAN cable network is also more concerned with avoiding the appearance of internal disturbances of the Internet network which, subsequently, hinder the functioning of staff (operators of campuses and faculties) and also hinder students' access to the SIA Academic The training system, as well as the maintenance of forms of care in the form of requests and persons using the SIA as management information for the benefit of the unika MAB campus.
- 2) For reasons of database security, the archiving procedure can be applied with a management information system, supported by the availability of reliable it-technology facilities, in order to provide AIS users and faculty operators who

perform their functions to serve students and university operators who monitor the data received in order to ensure the comfort of management.

3) The research and results of this study may be used as a reference for further research.

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