DIDAKTIKA
JURNAL PEMIKIRAN PENDIDIKAN
http://journal.umg.ac.id/index.php/didaktika
E-ISSN 2621-8941 (online)
Vol. 31 No. 2 Tahun 2025 | 380 – 392
DOI: 10.30587/didaktika.v31i2.9596

Validity and Reliability Test in Measuring the Use of Siakad in Physic Education Students at Jambi University

Eka Metha Natalia[1], Kayla Thahira[2], Ririn Fatma Sari[3], Widya[4], Nova Susanti[5]
[1]Pendidikan Fisika, FKIP, Universitas Jambi, Indonesia
[2]Pendidikan Fisika, FKIP, Universitas Jambi, Indonesia
[3]Pendidikan Fisika, FKIP, Universitas Jambi, Indonesia
[4]Pendidikan Fisika, FKIP, Universitas Jambi, Indonesia
[5]Pendidikan Fisika, FKIP, Universitas Jambi, Indonesia

ARTICLE INFO

Keywords:

Siakad;
USS Method;
Information Technology;
SPPS

Article history:

Received 2025-03-18
Revised 2025-09-16
Accepted 2025-09-30

ABSTRACT

Technology is used in various fields, both in politics, health, education and so on. Especially in the field of education, technology is needed in the field of information to help the learning process that is good, innovative, and creative. Public services in the field of education are very numerous, starting from the use of siakad, mastris, education portals, e-learning, new student admissions services and so on. There are so many academic services that can facilitate us in the learning process, one of which is the siakad mentioned earlier. Siakad is an academic service that is designed and created to manage and become a learning forum. The purpose of organizing siakad is to improve academic services among students. Therefore, Siakad is very much needed, in addition to improving academic services, it is also to inform students that science and technology are very important and can facilitate learning both face-to-face and distance or online. This study was conducted using quantitative methods with a questionnaire distribution method via gform to students of the physics education study program, to find out how satisfied and how interested students are in using educational services (Siakad). from the results obtained, there were 114 student data from 120 questionnaires distributed, this was because some students were not present when the questionnaire was distributed. With this questionnaire distribution method, it can be seen how satisfied Siakad information technology is in helping and facilitating physics education students at Jambi University. The correlation number ranges from 0 (no correlation at all) to 1 (perfect correlation). A correlation number above 0.5 indicates a fairly strong correlation, while below 0.5 the correlation is quite weak.

Corresponding Author:
Nova Susanti
Universitas Jambi; Indonesia nova_fisikaunja@unja.ac.id

INTRODUCTION

IT is a technological science that can develop very rapidly every year. Technological science has many benefits and uses but it also depends on the user. In line with the development of the era that uses technology in various situations, be it politics, education, health and so on because the use of technology is very helpful and makes the work of many people easier without taking a long time. Even the education sector creates learning modules with IT because it is very easy and attracts students' attention in learning theory, even difficult subjects, especially when the physics material applies concepts, laws, and there are also mathematical applications so that students find it difficult to understand. If the use of IT helps all work, then in line with the statement that the use of the internet to overcome problems in learning is very important. The internet can function as a learning resource for students by providing various interactive learning materials in the form of multimedia (Abdullah 2021); (Tanjung et al., 2024). Therefore, there is a strategy to help the learning process of state university students to do it easily and efficiently. One form of IT implementation in higher education is through the Academic Information System (SIAKAD), which functions to manage various student academic data and activities, such as filling in KRS, paying for lectures, lecture schedules, and managing assignments and assessments(Kurniawan & Falgenti, 2025).

Technological science can make it easier for us to find all information, both work and so on (Ahadiyah, 2024). In today's era, technological science is more advanced and sophisticated than humans. Information from technological science is faster than word of mouth. But the most important thing is that humans are the most perfect creation and technological science is also created by humans, so if no one can beat humans. Therefore, IT must be used and utilized as well as possible by users, the use of IT today is required so that there is no lag in the era of increasingly advanced and developing times. In higher education institutions, it is required to understand IT because if there are obstacles, it does not mean that the teaching and learning process cannot be carried out. A small example is that distance learning can be done via zoom or other applications so that it can still be implemented. In an institute, it is impossible to process the data of hundreds to thousands of students one by one. This is very ineffective and inefficient and takes a lot of time and energy. Therefore, the university provides an IT-based academic service called Siakad.

Technology is a development where the application of science that creates a tool, system and so on using electronics. In general, technology can cover various fields such as communication, transportation, health, energy, industry, and many more. In line with the development of the current era, there have been many changes, one of which is in education where education has been affected by the development of the era by means of everything being online or fast (Nurillahwaty, 2021). With this technological advancement, it has become easier for all groups to access education and maximize the teaching and learning process (Permana et al., 2024). Siakad is a form of technological advancement where Siakad is a campus website to facilitate students in academics.

According to Santosa & Anggraini (2021) SIAKAD (Academic Information System) was first introduced at IAIN Surakarta in 2011. Siakad is an abbreviation of academic information system, which is a website or system that is widely used by students when looking for academic information at universities. Meanwhile, according to Azmi et al. (2025) Academic information system is a system designed for the purpose of managing academic data with the application of computer technology, both hardware and software, so that the entire academic activity process can be managed into useful information in managing university management and decision making for decision makers or top management in the university environment. In addition to being able to manage academic information,

Siakad is a tool to assist students in administrative processes (Fitriastuti *et al*., 2024) and academics, both in terms of viewing lecture scheduling, filling out study plan cards or KRS, managing student attendance for final academic reports, and helping students by sending assignments given by lecturers through the same site or LMS or called a learning management system if learning is carried out online (Ramadhani, 2021); (Hikmawati *et al*., 2023).

Siakad is an academic information service used to improve students' abilities in academic services (Fitriastuti *et al*., 2024). Siakad can also process student data and also as a place for interaction between lecturers and students. such as when conducting academic assessments, communicating with supervisors or viewing the results of previous semester learning, all are listed in Siaka and Siakad is very effective to use because it can be accessed wherever students are via the website. In addition, Siakad has many advantages, one of which can be used as a single tuition fee payment service (UKT), namely money that is paid once a semester. By using Siakad, students can also find out who the students are who are contracting courses, the lecturers who teach the courses and the parties involved in the course learning process. However, the use of academic systems often faces various challenges, such as complex interfaces, incompatibility between system functionality and user needs, and problems related to usability (Adyanata *et al*., 2024). The presence of online SIAKAD is expected to accelerate and facilitate academic management anywhere and anytime, so that it can meet user needs more effectively (Hartono *et al*, 2024). If it does not meet the needs of students in academics, there is no need to continue using Siakad because Siakad is used to help access academic information easily without having to go to campus to queue or others.

Siakad was only discovered a few years ago, where previously for academic information universities used a manual system, Siakad itself has many features where you can access academic sections such as personal data especially for new students, contracting KRS, and paying UKT bills. Where this greatly facilitates all devices on campus and students, Siakad is also not only useful for new students but also for final year students, especially for submitting theses and others. In this study, the USS (user staff survey) method was used which was carried out by distributing questionnaires to see how attractive and satisfied students were with the Siakad display (Bouty *et al*., 2023).

On this occasion, the discussion about Siakad Universitas Jambi allows students to access various information that is very important for students, both academic activities carried out and costs related to the learning process in one curriculum with two semesters. With the Siakad Universitas Jambi platform, students can easily register for courses or course contracts online without having to come to campus or queue at the administration desk for weeks. Because there is already a Siakad Universitas Jambi platform that helps students choose the courses they want to take, besides that they can also monitor the selected lecture schedule and check the availability of seats in each course that is opened, this system makes it easier for students to plan their semester more flexibly and efficiently. In addition, Siakad Universitas Jambi allows lecturers to input student grades directly into the Siakad Universitas Jambi system, be it exam scores, student activity, assignments, and projects carried out by the student (Siregar & Situmeang, 2022).

With that, students can also easily see their grades with this platform to shorten the time needed to see the announcement of exam results or academic evaluations. The business process analysis stage is a stage for mapping and analyzing workflows, tasks, and interactions between actors and components in the SIAKAD and SPADA systems (Hamnah *et al*., 2025). The purpose of the business process analysis stage is to understand how the current business process is running. so that you can find out what needs to be improved. To visualize the business process in the SIAKAD system. The

importance of SIAKAD quality in supporting the academic administration process encourages this study to conduct an in-depth analysis of the University's SIAKAD (Fitriastuti *et al*., 2024).

The development of SIAKAD aims to improve the efficiency of academic administration in the university environment (Iddrus1 & Andiriyanto, 2021). By automating processes such as recording grades, attendance, and scheduling, SIAKAD helps reduce the workload of teachers and administrative staff, so that they can focus more on more substantial aspects of education. The development of SIAKAD is also aimed at improving the accuracy and speed of data processing, so that information can be accessed quickly and without error. Another important function of Siakad is also when managing the lecture schedule for the use of rooms in each semester. Siakad can't Jambi bags also support communication between students and lecturers, besides that, the responses given by academic supervisors are very good and this platform is used to help students and lecturers to shorten time and interact between students and academic supervisors more than integration by using Siakad for security Universitas Jambi is equipped with a fairly strong data protection system so that every user accessing the system must go through a personal username and password In addition, data is stored safely and well without any data leaks Personal information of students or lecturers.

This makes Siakad Universitas Jambi a safe and reliable system in managing academics. For the use of Siakad Universitas Jambi after distributing questionnaires to everyone, especially students of the Physics Education Study Program, Universitas Jambi, there are many things that are the same in terms of the attractive appearance of Siakad Universitas Jambi, from the information provided by Siakad Universitas Jambi which is complete and good and easy to understand by students (Amalia *et al*., 2022). This is something that is very, very helpful for students, but students will open it more often because of several considerations. Because if a display is good and attractive, students will open the platform more often without getting bored. Siakada also facilitates activities on campus such as KRS or class contract systems, GPA distribution, and also viewing class schedules. UKT payments can be made at Siakad, which makes it very easy for female students to carry out their obligations to the campus, Siakad helps female students and lecturers not to do this physically, because it is inefficient (Taufandri *et al*., 2022). With the existence of Siakad, it can be seen that the world of education has also followed the existing digital developments, it can be seen that if Siakad is not implemented in the current era, it will certainly make the campus information system more difficult to process new student data, where Siakad itself has a system to fill in the student's biodata, parent data, and can contract classes. You can imagine what it would be like if it were still manual, of course it would be inefficient (Harleni & Marisa, 2018).

Siakad is a facility provided by the campus as it should be all people on campus can use the facility properly. But Siakad itself has positive and negative impacts which will be reviewed in this article, the positive impact of Siakad itself, can be used flexibly wherever you are, you don't have to meet in person, save time and make administrative staff on campus process data. The negative impact is that many students are not familiar with Siakad or there are no features in Siakad, which makes it difficult for students. But the campus must also provide counseling on the use of Siakad, especially for new students. Siakad is also not only used for final year students but is also used for final year students to compile theses such as, Submission of titles, first trial to graduation. All systems have been created in Siakad which makes it easier so that you don't have to meet with lecturers or make time inefficient.

Siakad at Universitas Jambi is quite good, because its security level is good, but Siakad can go down because it is accessed too much by students which makes new students confused because they have never used Siakad before. However, when the server is down, it is possible not to be able to access

Siakad because Siakad at Universitas Jambi can not only be opened via the web but can also be opened via the Mastris application. The Mastris application is an application created to design and process data with the aim of being able to manage and assist in providing academic information. Mastris has advantages and disadvantages, the advantages of Mastris are that it can help students more easily during attendance, see RPS or material to be studied at each meeting. Mastris is indeed not as specific as Siakad, such as not being able to see empty rooms or other data. However, this Mastris is very helpful for students if the Siakad web server is down.

Siakad is very helpful for online teaching activities. Siakad is not only used to manage data or view information, but Siakad can be used to carry out online learning such as uploading assignments, giving assignments and materials, conducting exams and giving assessments to student attendance so that learning activities can be more efficient and easier. This is in line with the statement of Novita & Hutasuhut (2020), that the use of Siakad is highly recommended in online lecture activities such as in a pandemic situation so that learning activities can still be carried out properly. In online learning, lecturers find it difficult to monitor students so they need a means to monitor without taking up time and energy, with Siakad, lecturers monitor students from starting to complete assignments and so on, in Siakad there is also a feature where if students often open Siakad, it can be seen from the graph stating how often it is accessed by students. This is also in line with (Wilson, 2020), which states that Siakad has a positive influence where in this online learning process which requires the use of Siakad learning media for implementation in distance learning and online learning becomes more developed through Siakad (Yunianto *et al*., 2021). So through Siakad, both lecturers and students can interact, not only that, Siakad can even be used as a means of paying tuition fees or semester fees, so Siakad is indeed very helpful in operating data that can be accessed by students and lecturers (Natalia *et al*., 2024). With this, universities can reduce the risk of financial problems and can operate optimally without being disturbed by payment or administration problems (Chandra *et al*., 2024).

Therefore, Siakad is very helpful in the data processing process and related to lecture learning, just imagine if in a university where there are thousands or even tens of thousands of students whose data must be processed, such as recording grades, recording attendance or even contracting courses that must be calculated the number of credits to be contracted, of course it will take a lot of time and manpower, besides it is also prone to errors. It is different if you use this Siakad, of course the administration process will be much faster and more efficient, reducing the risk of errors also related to student materials and data. So Siakad is very necessary as a container for processing learning in a university to make teaching more flexible and efficient. However, after conducting research by distributing questionnaires, it can be seen that the appearance of Siakad at Universitas Jambi is much better (Erna *et al*., 2019).

In this study, SPSS was used to determine the correlation and reliability of users of the Siakad Universitas Jambi website. According to Erri *et al*. (2021), the correlation coefficient used in SPSS is the Pearson correlation used to measure the closeness of the relationship between the results of observations from a population that has two variants. The correlation number ranges from 0 (no correlation at all) to 1 (perfect correlation). A correlation number above 0.5 indicates a fairly strong correlation, while below 0.5 the correlation is quite weak. The use of SPSS is good for processing complex quantitative data and is difficult to minimize errors. SPSS is also easy to use with complete features.

METHODS

Research is a situation that requires structured proof of theory to get good results even though the results of the research are sometimes unsuccessful. Quantitative research based on descriptive, namely by distributing questionnaires, is a type of educational research whose researchers use numbers and rely on the views of participants or informants: researchers ask lengthy questions, ask general questions, collect data that is mostly in the form of words (or text) of participants, describe and analyze texts into themes, and conduct subjective and biased investigations (raising other questions). In this study, a study called the User Satisfaction Survey was used to see student satisfaction in using SIAKAD, by distributing questionnaires to students of Jambi University starting from the 2022-2024 Class of various majors to assess satisfaction with the SIAKAD system at Universitas Jambi.

In this study we distributed a questionnaire containing questions obtained from journal references (instruments), the instruments in the questionnaire itself amounted to 7 likerts, with a satisfaction scale of 1 to 5. According to (Waruwu, 2024), the quantitative research approach aims to test the research hypothesis. The target of this study is active students in the last 5 years, This questionnaire is distributed online so that it can be easily accessed by anyone. The data for this study was created with quantitative research data. Quantitative data with descriptive data is data that is obtained and described in the form of sentences or narratives. This research was conducted using the User Satisfaction Survey method. In this study, we followed several stages to obtain the data, as shown in the following chart:

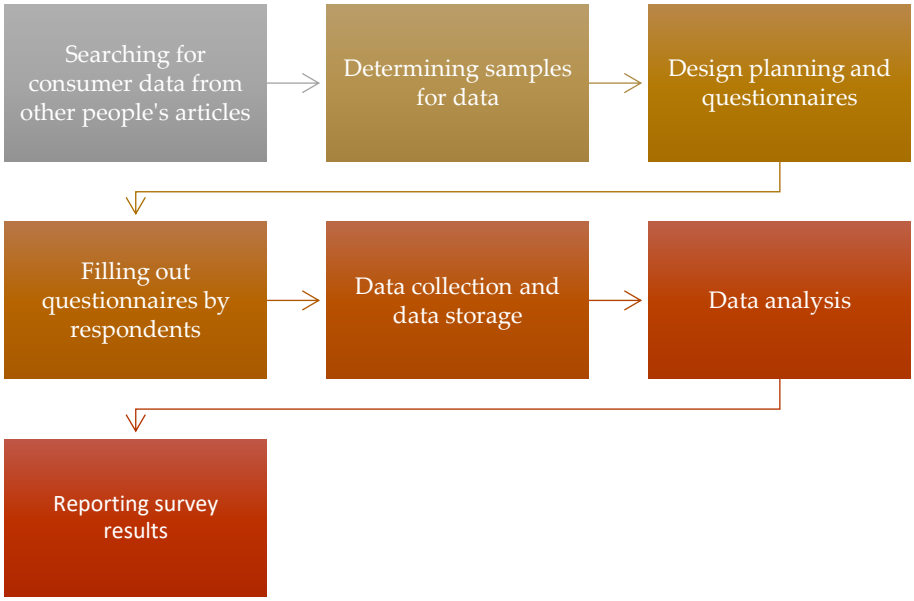

Figure 1. Research stage chart

FINDINGS AND DISCUSSION

Findings

The implementation of the SIAKAD platform assessment was carried out in one cycle which was carried out on students of Universitas Jambi by distributing it to 120 students. This research was conducted on Friday, February 21, 2025 to Sunday, March 2, 2025. The process of distributing the questionnaire was very difficult due to the lack of active respondents, however, we continued to

observe the platform until the students who received the questionnaire filled it out as honestly as possible.

The sending of the Siakad Universitas Jambi questionnaire with 120 students using the survey method began with the planning stage, namely searching for questionnaire data from other people's articles. After observing the research objects to be carried out, the next step is to determine the research method to evaluate the Siakad Universitas Jambi website, namely the satisfaction survey method (User Satisfaction Survey). The determination of this research method was chosen because it is effective in satisfaction, effectiveness, and user performance of the Siakad Universitas Jambi website. After the method is chosen, it can focus on research that is broadcast live to Siakad Universitas Jambi users starting from the appearance, navigation, security, and website response. The research method with USS is considered relevant to achieve research objectives by providing broad insights regarding quality and satisfaction.

Have conducted a data search from other people's articles by using the USS method, the next point is the implementation stage, namely determining a sample of 120 students. All ongoing questionnaire filling processes will be recorded by the Google Drive platform. This study aims to evaluate and improve the effectiveness of the system. Questionnaire testing will be carried out by distributing questionnaires to respondents who are within the scope of the research or case, then respondents are free to assess the Siakad website Universitas Jambi according to what the respondents encounter and feel each time they use the Siakad website Universitas Jambi. The questionnaire testing point in this research method uses the USS approach with 5 scales. The questionnaire is answered via USS to ensure readability, respondent consistency and ease of filling in the points. The test results provide initial feedback on the clarity of the questions and the consistency of the scale. Adjustments may be made to produce a questionnaire that produces reliable data with the objectives of the study.

And then the design and questionnaire planning. Design and questionnaire planning is done by making the questionnaire more attractive and good so that respondents have the passion to fill in the platform. Both from any department and any faculty at the Universitas Jambi. Then the filling of the questionnaire by respondents will be distributed via WhatsApp then, data collection and data storage will be safe on Google Drive. The final stage is the analysis of the results of the collection of questionnaire data. The results of data collection on March 2, 2025 provide a brief overview of the views of users of the Siakad Universitas Jambi money order using the USS method. Demographic data provides basic information about respondents. A 5-point scale is used to assess the usability, security, reliability and responsiveness of the website. Data analysis highlights key findings emphasizing areas of excess. The conclusion of the analysis provides a clear picture of the user experience and can be the basis for recommendations for updating the Siakad Universitas Jambi website by conducting reliability and validity tests on data obtained from respondents using SPSS. Validation shows the truth of a finding while rehabilitation refers to the consistency of the finding.

In an effort to analyze the Siakad Universitas Jambi website with the USS method, we obtained a questionnaire that uses a Likert scale as an assessment instrument. This point aims to measure the level of user satisfaction and perception of various aspects of the function of the Siakad Universitas Jambi website. The questionnaire was taken by assessing using a Likert scale where 1 = strongly disagree, 2 = disagree, 3 = Neutral, 4 = agree and 5 is the same as strongly disagree. The Likert scale is a scale used to measure a person's perception, attitude or opinion or towards a group of events, situations, or social cases. By utilizing the Likert scale, it is hoped that this frame will provide data that can be measured quantitatively, allowing for a more detailed analysis related to the level of user

satisfaction and perception of the Siakad Universitas Jambi website for a list of questionnaire questions can be seen in table 1.

Table 1. Questionnaire

No	Kusioner	1	2	3	4	5
1	SIAKAD UNJA beroperasi dengan lancar					
2	SIAKAD UNJA dapat diakses melalui perangkat dan browser manapun.					
3	Tampilan SIAKAD UNJA menarik dan mudah dipahami.					
4	Informasi terbaru mengenai proses perkuliahan tertera pada SIAKAD UNJA					
5	Tersedia panduan penggunaan pada SIAKAD UNJA					
6	Tersedianya informasi mengenai perkuliahan pada SIAKAD UNJA.					
7	Materi selama perkuliahan tersedia di Materi selama perkuliahan tersedia di e-learning SIAKAD UNJA.					

Table 1 is a questionnaire instrument that will be delivered to respondents. This method uses questionnaire distribution via gform to fill out the form of the question. In order to get information from the respondents. From the data that became a sample of 114 students of the physics education study program, batches 22, 23 and 24 filled out the questionnaire from 120 students. as many as 6 students did not fill it out because they did not know how to use the gform. From the question variables above, the author got references from (Tsabita et al., 2023)

Table 2. Correlation

		1	2	3	4	5	6	7
1	Pearson Correlation	1	.763**	.763**	.788**	.738**	.754**	.736**
	Sig. (2-tailed)		.000	.000	.000	.000	.000	.000
	N	114	114	114	114	114	114	114
2	Pearson Correlation	.763**	1	.819**	.734**	.731**	.843**	.765**
	Sig. (2-tailed)	.000		.000	.000	.000	.000	.000
	N	114	114	114	114	114	114	114
3	Pearson Correlation	.763**	.819**	1	.847**	.820**	.864**	.719**
	Sig. (2-tailed)	.000	.000		.000	.000	.000	.000
	N	114	114	114	114	114	114	114

4	Pearson Correlation	.788**	.734**	.847**	1	.808**	.828**	.730**
	Sig. (2-tailed)	.000	.000	.000		.000	.000	.000
	N	114	114	114	114	114	114	114
5	Pearson Correlation	.738**	.731**	.820**	.808**	1	.834**	.725**
	Sig. (2-tailed)	.000	.000	.000	.000		.000	.000
	N	114	114	114	114	114	114	114
6	Pearson Correlation	.754**	.843**	.864**	.828**	.834**	1	.794**
	Sig. (2-tailed)	.000	.000	.000	.000	.000		.000
	N	114	114	114	114	114	114	114
7	Pearson Correlation	.736**	.765**	.719**	.730**	.725**	.794**	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	
	N	114	114	114	114	114	114	114

Note:

1. SIAKAD UNJA beroperasi dengan lancar
2. SIAKAD UNJA dapat diakses melalui perangkat dan browser manapun.
3. Informasi terbaru mengenai proses perkuliahan tertera pada SIAKAD UNJA
4. Tampilan SIAKAD UNJA menarik dan mudah dipahami.
5. Tersedia panduan penggunaan pada SIAKAD UNJA
6. Tersedianya informasi mengenai perkuliahan pada SIAKAD UNJA
7. Materi selama perkuliahan tersedia di e-learning SIAKAD UNJA.

Once the data is obtained, the next step is to analyze the data. The respondents who filled out the questionnaire were 114 out of 120 people, so 6 people were less responsive to the questionnaire we gave. This research uses a tool to process data, namely using SPSS. SPSS was used to analyze the correlation in the analysis of the relationship between various aspects of the Jambi University Siakad and reliability tests to ensure that the instruments used in this study were consistent in measuring users' perceptions of the Jambi University Siakad. From the data above, this correlation test shows an analysis of the relationship between various aspects of the University of Jambi Siakad. Values close to +1 indicate a very strong positive relationship, values close to 0 indicate no relationship, and -1 indicate a strong negative relationship.

Discussion

The Siakad University of Jambi questionnaire can be accessed through any device or browser and has a correlation of 0.864 which means that the relationship between variables is strong enough to very strong with the availability of information about lectures at Siakad University of Jambi. Siakad

UNJA must be ensured to be accessible on all devices such as mobile phones, tablets, laptops and PCs and can be accessed through websites such as Chrome, Firefox, Safari, Yahoo, Edge and other websites. This means that users who feel that Siakad Universitas Jambi is easily accessible tend to feel that lecture information is well available and that improving its implications for system accessibility can increase the perception of available information. Then the latest information about the lecture process listed in the Siakad of the University of Jambi has a correlation of 0.843. Features such as the availability of information about lectures at Siakad University of Jambi, which indicates that when users think Siakad has the latest information, they also consider the system to provide good lecture information.

A high correlation value indicates that there is an improvement in aspects related to accessibility, or information and alloys that are increasing. Regular updates of information can increase students' confidence in the system. The attractive and easy-to-understand appearance of the University of Jambi Siakad has a correlation of 0.788 with the University of Jambi Siakad which operates smoothly. This means that a smooth system tends to be more appreciated compared to a system that is just an attractive look and ease of use of the website. The implication is that technical aspects such as system speed and stability must be considered in order to maintain a good user experience. The conclusion of the correlation is that all variables have a fairly high correlation above 0.7 which indicates that the elements tested in Siakad are closely related. The focus of improvement can be directed to variables with lower correlation, for example, the material during lectures available in e-learning has a lower oration than other aspects.

Table 3. Reliability Test

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
SIAKAD UNJA beroperasi dengan lancar	24.8421	31.904	.833	.957
SIAKAD UNJA dapat diakses melalui perangkat dan browser manapun.	24.7105	32.137	.858	.955
Tampilan SIAKAD UNJA menarik dan mudah dipahami.	24.8158	31.992	.874	.954
Informasi terbaru mengenai proses perkuliahan tertera pada SIAKAD UNJA	24.7368	31.417	.894	.952
Tersedia panduan penggunaan pada SIAKAD UNJA	24.9123	31.727	.856	.955
Tersedianya informasi mengenai perkuliahan pada SIAKAD UNJA.	24.6579	31.625	.913	.951
Materi selama perkuliahan tersedia di e-learning SIAKAD UNJA.	24.7982	31.419	.818	.959

Furthermore, the reliability test data in the table above is used to ensure that the instrument usedFurthermore, the reliability test data in the table above is used to ensure that the instrument used in this study is consistent in measuring user perceptions of Siakad Universitas Jambi. Cronbach's Alpha is a method for testing reliability. The value is categorized as more than or equal to 0.9 is very good reliability. The distance at 0.8 to 0.9 is good reliability, at a distance of 0.7 to 0.8 is sufficient reliability, and less than 0.7 is less reliability in the results of the data above the value ranges from 0.951-0.959 points This indicates that the instrument has very high or good reliability.

The high correlation values between the variables in this study, all above 0.7, indicate that the aspects of SIAKAD UNJA are closely related and that some of them are dominant factors in shaping user satisfactionThe highest correlation result, 0.864, occurred between the variables of system accessibility and availability of lecture information, which means that the easier the system is to access from various devices and browsers, the higher the students' perception of the completeness of the available lecture information. In addition, the correlation of 0.843 between the latest information and information availability also shows that regular updates to the system can increase student confidence in SIAKAD. This consistently high correlation opens up opportunities for use as a predictive tool, for example, by increasing accessibility and updating information, it can be predicted that student satisfaction will also increase. However, despite the strong relationship, it should be noted that correlation does not indicate a direct cause and effect, so further analysis using regression or SEM is needed to confirm the influence between variables.

Correlation shows the extent to which each question correlates with the overall scale, all in this table have high values above 0.8 indicating that no instruments are not deleted. The instrument with the highest value is the availability of information regarding lectures at Siakad, Jambi University, with a value of 0.913, which shows that this aspect is very important in the overall assessment of Siakad and the instrument with the lowest value is the material during changes available in e-learning Siakad, Jambi University, with a value of 0.818, which is also quite high. In this data shows that reliability is quite high, above 0.95, indicating that there are no questionnaires or items that should be deleted. So the instrument used in this study is very consistent and reliable because there are no questions that need to be deleted or revised because all have their own strengths or contributions from the question. A high reliability score indicates that the Response answers are quite stable and do not experience many unnecessary variations.

Based on the data analysis above, some recommendations that we provide where to provide increased accessibility because the high correlation of accessibility and availability of information ensures that Siakad can be accessed on various devices and browsers can improve the user experience. This needs to be ensured that the system must be compatible with various devices, be it laptops, tablets, cellphones, and browsers such as Chrome, Firefox, and Safari. Then it can be considered again for notification to students regarding changes in schedules or other academic information. The data above was filled in by 114 questionnaires, where it can be seen that the level of reliability is quite high, at 0.95, meaning that not a single one was missed.

In the data above, it can be seen that Siakad can be used on various Android and iOS devices. And can be used on PCs or computers, and can be accessed on Chrome, Google and Firefox. Where Siakad itself is flexible to use on sites and devices. In this data, it can be seen that there are no questionnaires that are not filled in or empty, which makes the data in this article reach 0.95 which indicates that no questionnaires are missed. But Siakad itself still has shortcomings because it cannot provide notifications or notifications that make this a consideration for the future, as we know students are very negligent where this notification notification is very important. In Siakad itself, there are no shortcomings that need to be reviewed again, but what needs to be fixed again is about the Siakad

coverage so that students are more familiar with the features of Siakad, although the obstacles are quite high, counseling for students about the use of Siakad is also a consideration because many students in the use of Siakad.

CONCLUSION

Based on the results of a survey conducted using the USS method through the distribution of questionnaires with a Likert scale to 120 students and 6 students who were less responsive. This shows that 95% of students responded well and 5% were less responsive, the number of less responsive students is an indicator of improvement in this academic information system. Most of the correlation tables show results above 0.5 for each variable. This means that Siakad Universitas Jambi has experienced good to very good improvements. Variable 1 with the highest correlation is 0.864 which means it shows a very good relationship with its users and is indicated to be very satisfied with the existence of Siakad and its increasingly good features such as being accessible anywhere and anytime. The use of Siakad is classified as good in helping students to get academic information more practically and efficiently.

ACKNOWLEDGMENTS:

Acknowledgments to Lecturer Dr. Nova Susanti, S. Pd., M.si. in and also the students who played an important role in this research.

CONFLICTS OF INTEREST

The author declares no conflict of interest.

REFERENCES

Abdullah, A., Achmad, A., & Sahibu, S. (2021). Media Pembelajaran Interaktif Mata Kuliah Pemograman Web Berbasis Android. *Inspiration: Jurnal Teknologi Informasi Dan Komunikasi*, *11*(1), 45.

Adyanata, I. K., Nugraha, P. A. G., Gunawan, I. M. A. O., & Indrawan, G. (2024). Evaluasi Sistem Informasi SIAkad UPMI Mengunakan Metode System Usability Scale. *JUPITER: Jurnal Penelitian Ilmu Dan Teknologi Komputer*, *16*(1), 61–70.

Ahadiyah, F. N. (2024). Perkembangan Teknologi Infomasi Terhadap Peningkatan Bisnis Online. *INTERDISIPLIN: Journal of Qualitative and Quantitative Research*, *1*(1), 41–49.

Amalia, D., Cahyono, D., Septiani, V., & Kristiawan, M. (2022). UX test in the academic information system of vocational higher education. *JPGI (Jurnal Penelitian Guru Indonesia)*, *7*(1), 36.

Azmi, N., Bashir, A., Azzahro, M., Laksana, F. F., & Ipmawati, J. (2025). *Analisis Faktor Penggunaan SIAKAD Menggunakan Metode UTAUT 2 di Universitas Nahdlatul Ulama Yogyakarta Analysis On Customers Satisfaction of SIAKAD Using UTAUT 2 Method at Universitas Nahdlatul Ulama Yogyakarta*. (1), 12–24.

Belva Saskia Permana, Lutvia Ainun Hazizah, & Yusuf Tri Herlambang. (2024). Teknologi Pendidikan: Efektivitas Penggunaan Media Pembelajaran Berbasis Teknologi Di Era Digitalisasi. *Khatulistiwa: Jurnal Pendidikan Dan Sosial Humaniora*, *4*(1), 19–28.

Bouty, A. A., Kadim, A. A., Rijal, B. S., Tuloli, M. S., & Kaharu, R. (2023). Pengembangan Aplikasi Jaringan dan Dokumentasi Informasi Hukum dengan Metode User Centered Design. *Jambura Journal of Informatics*, *5*(1), 68–76.

Dirgahayu Erri, A. P. L. & H. H. A. (2021). Jurnal Inovasi Penelitian. *Jurnal Inovasi Penelitian*, *1*(10), 1–208.

Erna, D., Hidayah, N., Irawan, B., & Paselle, E. (2019). Di Universitas Mulawarman. *Efektivitas Sistem Informasi Akademik Dalam Peningkatan Pelayanan Akademik Pada Fakultas Ilmu Sosial Dan Ilmu Politik*

Di Universitas Mulawarman, *7*, 6761.

Fitriastuti, F., Putri, A. E., Sunardi, A. K., & Hidayat, R. A. (2024). Analisis Website Siakad Universitas Janabadra Menggunakan Metode UAT. *Jurnal Teknologi Sistem Informasi*, *5*(1), 276–285.

Hamnah Puspaningrum1, Indra Gita Anugrah2, W. P. P. W. (2025). *p-ISSN : 2087-0868 (media cetak) e-ISSN : 2598-9707 (media online)*. *16*(1), 120–136.

Harleni, M. (2018). *Jurnal Teknologi Informasi dan Manajemen Jurnal Teknologi Informasi dan Manajemen*. *2*(2), 1–8.

Hartono, R., Yulian, D., & Lingke, R. (2024). *Pelatihan Penggunaan Aplikasi Siakad Online Untuk Membantu Pengelolaan Akademik SMP Darul Ilmi Banyuwangi*. *1*(1), 1–8.

Hikmawati, F., Manajemen, J., Syariah, B., Ekonomi, F., Islam, B., & Pontianak, I. (2023). Manfaat Sistem Informasi Akademik (SIAKAD) Dalam Perguruan Tinggi. *Jurnal Ilmiah Rekayasa Dan Manajemen Sistem Informasi*, *9*(1), 45–51.

Iddrus1, A. A., & 1Fakultas. (2021). Fakultas teknik universitas wiraraja sumenep - madura. *Jurnal "MITSU" Media Informasi Teknik Sipil*, *9*(1), 1–8.

Kurniawa, A., & Falgenti, n; N. A. H. S. K. (2025). *INTI NUSA MANDIRI*. *19*(2), 316–324.

Nabila Tsabita, Nur Shilah , Lutfiah Nurzahra, N. W. N. (2023). Pengukuran Kualitas Layanan Sistem Informasi Akademik Menggunakan Metode Webqual 4.0. *Jurnal Informatika UPGRIS*, *1*(2), 112–119.

Natalia, V., Pusparini, N. N., Sarumaha, S. S., Studi, P., Infomatika, T., Widuri, S., … Jakarta, I. (2024). *Analisis Sistem Kinerja SIAKAD untuk Pembayaran SPP Mahasiswa pada STMIK Widuri dengan Metode PIECES*. *2*(4).

Novita, D., & Hutasuhut, A. R. (2020). Plus Minus Penggunaan Aplikasi-Aplikasi Pembelajaran Daring Selama Pandemi Covid-19 (Pluses and minuses of using online learning applications during the Covid-19 pandemic). *Unimed Medan, June*, (June), 1–11.

Nurillahwaty, E. (2021). Peran Teknologi dalam Dunia Pendidikan. *Jurnal Keislaman Dan Ilmu Pendidikan*, *3*(1), 123–133.

Ramadhani, T. (2021). Optimalisasi Penggunaan Media Siakad atau e-learning dalam Pembelajaran Daring. *Jurnal Literasi Digital*, *1*(1), 29–33.

Riska Rahman Tanjung, Annida Azhari Ritonga, Bintang Mahrani Abdullah, Nita Afriani Siregar, & Armilah Armilah. (2024). Transformasi Digital dalam Pendidikan: Meningkatkan Kualitas Pembelajaran Melalui Teknologi. *Sinar Dunia: Jurnal Riset Sosial Humaniora Dan Ilmu Pendidikan*, *3*(2), 211–217.

Santosa, R. B., & Anggraini, N. (2021). Rancang Bangun Sistem Informasi Akademik (SIAKAD) dengan Integrated Online Registration System pada Unit Laboratorium dan Praktikum Pada Fakultas Ilmu Tarbiyah dan Keguruan IAIN Surakarta. *Lensa: Jurnal Kependidikan Fisika*, *9*(2), 157.

Siregar, B., & Situmeang, M. (2022). Pemanfaatan SIAKAD dalam Menunjang Pelaksanaan Pendidikan serta Manfaatnya bagi Institusi dan Mahasiswa. *All Fields of Science Journal Liaison Academia and Sosiety*, *2*(4), 210–216.

Taufandri, M. J. P., Putri, D. Y., Putra, D. yuliadi, & Rahmadani, C. W. S. (2022). Analasis Penerapan Sistem Informasi Akademik (SIAKAD) Online di FISIP Universitas Muhammadiyah Jakarta. *Kajian Ilmiah Mahasiswa Administrasi Publik (KIMAP)*, *3*(6), 1623–1633. Retrieved from

Wilson, A. (2020). Penerapan Metode Pembelajaran Daring (Online) melalui Aplikasi Berbasis Android saat Pandemi Global. *SAP (Susunan Artikel Pendidikan)*, *5*(1).

Yudi Irawan Chandra, Diyah Ruri Irawati, & Marti Riastuti. (2024). Penerapan Model Agile – Extreme Programming (XP) Dalam Membuat Aplikasi Pengenalan Daerah Wisata di Wonogiri Berbasis Web. *IKRA-ITH Informatika : Jurnal Komputer Dan Informatika*, *8*(1), 91–100.

Yunianto, I., Purnomo, H. D., & Prasetyo, S. Y. J. (2021). Analisa Sistem Informasi Akademik Menggunakan WebQual dan PIECES Frameworks Pada Universitas XYZ. *Jurnal Media Informatika Budidarma*, *5*(3), 995.