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Information System's Implementation and its Impact on University Organization Performance in West Java

*Implementación de sistemas de información y su impacto en el rendimiento de la organización universitaria
en Java Occidental*

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ABSTRACT

This study aims to determine the effect of information systems' implementation success on governance quality and its impact on university organization performance. The results show that at a 5% significance level, the success of information systems' implementation has a positive effect on the quality of governance and a positive impact on the performance of university organizations in West Java. Findings indicate a positive effect on the performance of university organizations in West Java through the quality of governance.

Keywords: Information system implementation success, governance quality, organization performance, quality

RESUMEN

Este estudio tiene como objetivo determinar el efecto del éxito de la implementación de los sistemas de información sobre la calidad de la gobernanza y su impacto en el desempeño de la organización universitaria. Los resultados muestran que a un nivel de significancia del 5%, el éxito de la implementación de los sistemas de información tiene un efecto positivo en la calidad de la gobernanza y un impacto positivo en el desempeño de la organización universitaria en Java Occidental. Los hallazgos indican que el éxito también tiene un efecto positivo en el desempeño de las organizaciones universitarias en Java Occidental a través de la calidad de la gobernanza.

Palabras clave: Éxito en la implementación del sistema de información, calidad de la gobernanza, desempeño de la organización, calidad

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1. INTRODUCTION

Increasing the nation's competitiveness in facing the challenge of globalization in all fields requires higher education institutions that are able to develop science and technology (Republik Indonesia: 2012). University is an education unit that organizes higher education (Republik Indonesia: 2012).

The number of universities registered among the top 500 universities in the world has been determined as an indicator of the performance of strategic objectives to measure the quality and level of competitiveness of Indonesian universities at the international level. It builds awareness of the importance of the ranking of Indonesian universities among world universities. In 2018, out of the four universities targeted to achieve this programme performance indicator (IKP), only three universities succeeded in realizing it (Sundry & Pamungkas: 2011, pp. 449-646).

At the national level, the accreditation assessment conducted by BAN-PT is an indicator of university performance. The latest 2019 data related to university accreditation shows that most universities in Indonesia still have accreditation C and B, while accreditation A was achieved by 96 universities or 4.2% of the total universities in Indonesia. These data also show that the performance of universities in national-level assessment is not yet optimal.

In a smaller scope, universities in Indonesia are divided into 14 regions. Region IV (West Java, Banten) is the region with the highest number of accredited universities compared to the 13 other regions throughout Indonesia. However, region IV also has the most C accredited universities compared to other regions. In terms of the distribution of universities in West Java, 17 universities are accredited A (14 West Java, 3 Banten), 129 are accredited B (101 West Java, 28 Banten), 219 are accredited C (173 West Java, 46 Banten).

Based on data from BAN-PT, in November 2019, the percentage distribution of universities on a national scale and West Java is dominated by universities accredited C and B. Universities with accreditation A on a national scale are 102 (4.45 %), and within West Java are 14 (4.86%). Meanwhile, universities with accreditation B nationally are 894 (39.02%), and in West Java, it is 101 (35.07%). Furthermore, universities with C accreditation nationally are 1,295 (56.53%), and in West Java, 173 (60.07%). These data indicate that the performance of universities on both the national and West Java scale is currently still not optimal even though universities play a significant role.

To ensure the achievement of strategic objectives, a concept of university governance implementation is considered to be ideal, known as Good University Governance (GUG). GUG can be realized with internal control in an organization because the entire process of activities aims to provide adequate confidence in achieving organizational goals through effective and efficient activities (Kapho et al.: 2017).

The involvement of information systems is essential for universities to achieve Good University Governance. In terms of managing data on academic activity, it needs to be processed quickly and accurately (Aswati et al.: 2015). IT plays a vital role in various aspects, including research quality, teaching quality, innovation, facility, and internationalization. Another function of IT is to support teaching and learning activities using electronic learning methods or e-learning and facilitate access to learning materials (Ibda & Rahmadi: 2018).

The involvement of information technology in the world of education is no longer considered optional but has become a necessity that must be adopted by universities. The importance of using information technology in the globalization era is demanded to meet the increasing need to be competitive and provides many benefits in its application (Fachri et al.: 2018).

In their implementation, information systems and information technology in private universities have two groups of problems, namely technical and non-technical (Murtadho & Wahid: 2016, pp. 17-21). The technical aspects related to the system itself, namely the quality of the technical information system. In contrast, the non-technical aspects are associated with the perceptions of users of an information system that cause them to accept or refuse to use an information system that has been developed.

The National Standards for university governance implementation, including education, research, and community service, are outlined in the Regulation of the Minister of Technology Research and Higher Education No. 44 of 2015. The establishment of this Standard guarantees the achievement of university goals and provides guidance for universities to achieve high-quality education following established criteria, also

can surpass these criteria gradually. Each university must fulfill the Standards as the basis for granting Higher Education establishment licenses to open study programs, the basis for the implementation of the Three Pillars of Higher Education (Tri Dharma Perguruan Tinggi), as well as the internal and external quality assurance systems. These Standards are evaluated and refined in a planned, directed, and sustainable manner, following the demands of local, national, and global changes.

Information System Implementation Success

According to Aswati et al.: 2015, an information system is a system within an organization that compiles daily transaction processing in support of operational activities, as part of managerial behaviors and strategic activities, in order to provide reports in the form of activity information to related parties. The utilization of information systems in a university will be a factor in university success and progress. Many tasks can be carried out using information systems such as educational information systems that manage teaching and learning schedule data, lecturers, students, and student grades. The existence of an information system will also greatly facilitate the activities of the university related to data processing.

The success of an information system can be seen through the quality of the system, the information provided, the level of use, and satisfaction of use, as well as other aspects that indicate how much influence, is obtained by the existence of such an information system (Rahayu et al.: 2018, pp. 34-46).

In this study, the definition of the success of an information system, based on the literature (Aswati et al.: 2015; Dorothy et al.: 2014, pp. 209-222; Rahayu et al.: 2018; Sulindawaty: 2015) is that there is a significant influence from the application of the system in organizations in the form of interconnected components in collecting, processing, storing and distributing information that supports operational activities namely managerial (decision making) or supervisory. The dimensions for assessing an information system according to the updated D&M IS Success Model is system quality, information quality, service quality, user satisfaction, system use, and net benefit (DeLone & McLean: 2003, pp. 19-30).

Good University Governance (GUG)

According to Wijatno: 2009, GUG is the application of the basic principles of the concept of GG (Good Governance) in the system and process of governance of universities based on the values of higher education. Good governance practices at university can provide benefits, namely improving the organization's personnel performance. GG can encourage all organization constituents to act as expected (Wijatno: 2009). Good University Governance (GUG) is explained as implementing the basic principles of GG in the governance system and processes in university. The implementation is processed by several adjustments based on values include in conducting education. The similarity of GUG and Good Corporate Governance (GCG) is on efficiency and effectiveness, while.

The difference lies in the vision and mission, wherein university, the actors are professors and students, and knowledge is the commodity (Sari et al.: 2017, pp. 157-166).

Based on the literature (Januri & MM: 2018; Sabandar et al.: 2018; Sari et al.: 2017; Wijatno: 2009), in this research context, GUG is defined as the implementation of GG principles in the governance system and processes of higher education institutions. According to Wijatno: 2009, the Good University Governance model is measured by 1. Transparency; 2. Accountability; 3. Responsibility; 4. Independence; 5. Fairness

Organization Performance

Performance is an achievement or level of success achieved by an individual or an organization carrying out work in a certain period. Performance can also be interpreted as the achievement in conducting services for the community in a given time (Aditama & Widowati: 2017). According to Ridla: 2016, in general, performance is defined as a complete view of the state of an institution over a certain period and is a result or achievement that is influenced by the operational activities of the institution in utilizing its resources.

In this study, the definition of the Performance of Organization based on the literature (Aditama & Widowati: 2017; Ridla: 2016) is the result of work that is influenced by various factors and resources to achieve organizational goals within a specified period. The performance evaluation of a university organization in Indonesia was conducted by the Directorate General of Institutional Science, Technology and Higher Education, no. B / 606 / C.C5 / KB.00.02 / 2019 concerning the clustering of Indonesian Universities in 2019.

The dimensions of the assessment include input, process, output, and outcome. There are 20 indicators used in this study within four dimensions, namely: 1. Input; 2. Process; 3. Output; 4. Outcome.

2. HYPOTHESIS DEVELOPMENT

H1: Information system implementation success has a positive effect on the Quality of University Governance.

Tajuddin's research reveals that an Information System (IS) is needed for private universities to achieve GUG (Tajuddin: 2015, pp. 113-123). This research was conducted to see the efficiency of IT grants and the success of their implementation, as well as the right leadership to achieve GUG in PTS in East Java. The results of this study indicate that transformational leadership has no effect on user satisfaction. There is no influence between the quality of the system, information, and services on individual impacts, and there is no influence between user satisfaction with GUG. In addition, there is a transformational leadership effect, user satisfaction with individual impact. There is an influence between the quality of the system, information, and services on consumer satisfaction, and there is an influence between the individual impact on GUG.

Rachmawati's research aims to examine the relationship between the implementation of accounting IS and the governance of Rural Banks (BPRs) (Rachmawati: 2019, pp. 10-17). PLS-SEM was used for the analysis of 145 rural bank data registered with the Association of Regional-Owned Banks in Central Java, Indonesia. The results of the study found the bookkeeping system, financial reporting, and budgeting system implementation positively influenced the good corporate governance of rural banks, while the International Finance Standard Reporting (IFRS) for the implementation of Small and Medium Enterprises (UKM) did not significantly affect corporate governance. good of the rural banks.

H2: University Governance quality has a positive effect on university performance.

Al-Mamary's research aims to look at the relationship between CG and organizational performance (Al-Mamary et al.: 2014). This study adopted a quantitative methodology, and the primary data were analyzed using the Karl Pearson correlation technique and regression analysis. The results showed that board skill, the large board size, longer serving CEOs, management skills, audit committee independence size of the audit committee, foreign ownership, institutional annual general meetings and ownership, dividend policy have a positive effect on organizational performance.

The research of Muktiyanto et al.: 2020 aims to prove the alignment between GUG and performance directly and indirectly through an intermediary variable: the choice strategy. In the context of higher education in Indonesia, through testing the structural equation model, it proves that there is an alignment of the GUG model on higher education performance as evidenced by $R^2 = 0.72$, and the total estimated value of GUG at performance is 85.10%.

Amilin's research aims to analyze the effect of implementing GUG principles on managerial performance (Amilin: 2017, pp. 330-344). Managerial performance refers to participatory budget management practices. The population of this research is all work units in the UIN Syarif Hidayatullah Jakarta, with a sample of 60 people who work on budget management. The results showed that the application of GUG principles had an effect on managerial performance.

Wahyudin's research aims to analyze the development of the GUG model on the financial management performance of PT (Wahyudin et al.: 2017, pp. 60-69). The study population was all state universities in Central Java Province and Yogyakarta Special Region. The number of samples was 77 units using the purposive sampling technique. Data analysis using SEM Model based on Path Analysis. The results showed that GUG was proven to have an effect on organizational structure, planning management, and financial management performance.

Gunawan's research aims to examine and analyze the effect of organizational commitment, competence, and governance on employee performance and quality of asset management in the Makassar City Government Regional Work Units (SKPD) (Gunawan et al.: 2017). The research data were analyzed using SEM through Analysis of Moment Structures (AMOS) Ver.18. The results showed that organizational commitment, competence, and GG have a significant effect on employee performance. Organizational commitment has a negative and significant effect on the quality of asset management, whereas competence,

GG, and employee performance have a positive and significant effect on asset management quality.

H3: Information system implementation success has a positive effect on performance through University Governance quality.

Sykes et al.: 2014 conducted research on enterprise system implementation and employee job performance. Enterprise system is one of the implementations of new Information Systems (IS). This research was conducted on 87 employees, with data collected before and after the implementation of the ERP system module in the business units of large organizations. This study found that workflow advice and software advice was related to job performance.

Arisman & Fuadah's study aims to investigate the factors that affect organizational performance using accounting information systems through customer satisfaction and integrated information systems (Arisman & Fuadah: 2017, pp. 167-180). Research respondents were 447 companies listed on the Indonesian Stock Exchange with a total of 176 responses that had complete data. The results showed that knowledge of management systems and management control systems had a significant effect on user satisfaction and integration of information systems. Information system integration and user satisfaction have a significant positive relationship with performance.

3. METHODOLOGY

Research Object: The independent variable in this study is the Success of Information System Implementation, while the dependent variable is the Performance of University Organizations and Good University Governance (GUG) as an intervening variable. The method used is quantitative analytic, with a deductive method.

The population of this research is Universities in West Java, including 163 universities with accreditation B and C, 60 universities with accreditation B, and 103 universities with accreditation C. Data analysis uses Structural Equation Modelling (SEM) using statistical analysis tools in the form of Lisrel software 8.7.

4. RESULTS

4.1. Profile of Respondents

Table (1). Analysis of Variable Scores of the Implementation of Internal Control System

No.	Dimension	Ideal Score	Real Score	Average Score	% Score	% GAP
1	System Quality	978	828	5.08	72.6%	15.3%
2	Information Quality	978	839	5.15	73.5%	14.2%
3	Quality of Service	978	809	4.96	70.9%	17.3%
4	User Satisfaction	978	804	4.93	70.5%	17.8%
5	Net benefits	978	852	5.23	74.7%	12.9%
6	Use	978	871	5.34	76.3%	10.9%
Total		5.868	5.003	5.12	73.1%	
GAP				1.88	26.9%	

Source: Data processing results (2020)

The respondent's assessment of Information System Implementation Success has an average score of 5.12. Based on the average value of its dimensions, the highest rating is in the Use dimension with an average score of 5.34, while the lowest rating is in the User Satisfaction dimension with an average score of 4.93.

4.2. The University Governance Quality

Table (2). Analysis of Variable Scores of University Governance Quality

No.	Dimension	Ideal Score	Real Score	Average Score	% Score	% GAP
1	Transparency	978	879	5.39	77.0%	10.1%
2	Accountability	978	812	4.98	71.2%	17.0%
3	Responsibility	978	857	5.26	75.1%	12.4%
4	Independence	978	820	5.03	71.9%	16.2%
5	Fairness	978	753	4.62	66.0%	23.0%
Total		4.890	4.121	5.06	72.2%	
GAP				1.94	27.8%	

Source: Data processing results (2020)

Table 2 shows that the implementation of regulation has an average score of 5.07. Based on each dimension's average value, the highest assessment is in the source with an average score of 5.12, while the lowest assessment is in the dispositions with an average score of 5.04.

Table (3). Analysis of Variable Scores of the Quality of University Governance

No.	Dimension	Ideal Score	Real Score	Average Score	% Score
1	Transparency	978	879	5.39	77.0%
2	Accountability	978	812	4.98	71.2%
3	Responsibility	978	857	5.26	75.1%
4	Independence	978	820	5.03	71.9%
5	<i>Fairness</i>	978	753	4.62	66.0%
Total		4.890	4.121	5.06	72.2%

Source: Data processing results (2020)

The respondent's assessment of the Quality of University Governance has an average score of 5.06. Based on the average dimensions, the highest rating is in the Transparency dimension, with an average score of 5.39, while the lowest rating is in the Fairness dimension, with an average score of 4.62.

Table (4). Results of Path Coefficient and Statistical Tests

Relations	Path	T-value	R-square (Simultaneous)
Information System Success → Governance	0,06	0,11	0,78
Governance → Organization Performance	0,03	5,7	0,64
Information System Success → Organization Performance, through Governance	0,02	0,15	0,71

Source: Data processing results (2020)

Table 4 shows that information systems success influences governance / GUG by 78% and 22% influenced by other factors. Governance / GUG affects the Performance of the Organization by 64%, and other factors influence the remaining 36%. The success of Information Systems influences the Performance of Organizations through governance by 71%, and other factors influence the remaining 39%.

This study has latent variables, namely the Success of Information System Implementation, the Quality of University Governance, and the Performance of University Organization as measured by 3-4 observed variables/indicators. Furthermore, the measurement of each indicator is made through the respondents' responses to statements on the questionnaire

4.3. Instrument Validity and Reliability

1) Variable of Information System Implementation Success (KIS)

The variable of Information System Implementation Success is measured by 6 (six) dimensions consisting of 24 indicators. The following shows the results of the CFA test with the second-order model for the Information System Implementation Success variable. Based on the results of the CFA test, the value of RMSEA = 0.000 < 0.08 and all indicators have a loading factor above 0.5, so it can be concluded that each indicator is valid as a measuring tool for the variable of Information Systems Implementation Success. For more details, see Table 5.

Table (5). Test Results of Validity and Reliability Variables of Information System Success

Latent Variable	Indicator	λ	λ^2	ε	CR	VE	Result
<i>First Order</i>							
ISS 1	x29	0,67	0,449	0,551	0,677	0,513	Reliabel
	x30	0,76	0,578	0,422			
	x31	0,81	0,656	0,344			
	x32	0,76	0,578	0,422			
	x33	0,84	0,706	0,294			
ISS 2	x34	0,81	0,656	0,344	0,846	0,646	Reliabel
	x35	0,76	0,578	0,422			
	x36	0,67	0,449	0,551			
	x37	0,81	0,656	0,344			
	x38	0,85	0,736	0,296			
ISS 3	x39	0,83	0,689	0,311	0,798	0,502	Reliabel
	x40	0,69	0,476	0,524			
	x41	0,83	0,689	0,311			
	x42	0,69	0,476	0,524			
	x43	0,57	0,348	0,652			
ISS 4	x44	0,84	0,689	0,311	0,903	0,757	Reliabel
	x45	0,76	0,533	0,467			
	x46	0,85	0,64	0,36			
ISS 5	x47	0,62	0,348	0,652	0,776	0,539	Reliabel
	x48	0,79	0,608	0,392			
	x49	0,91	0,792	0,208			
	x50	0,59	0,348	0,652			
	x51	0,78	0,608	0,392			
ISS 6	x52	1	1	1	1	1	Reliabel
<i>Second Order</i>							

ISS 7	ISS1	0,86	0,74	0,26	0,854	0,663	Reliabel
	ISS2	0,88	0,774	0,226			
	ISS3	0,69	0,476	0,524			
	ISS4	0,76	0,724	0,26			
	ISS5	0,78	0,751	0,226			
	ISS6	0,79	0,476	0,624			

Source: Data processing results (2020)

In the second-order test results, the Information System Implementation Successfulness variable, all dimensions have a loading factor above 0.5 so that all dimensions are valid in measuring the Information System Implementation Success variable. Based on the results of the loading factor, it can be seen that the ISS2 dimension has the highest loading factor value so that it is the strongest in reflecting the Information System Implementation Success variable, while the ISS3 dimension has the lowest loading factor value so that this dimension is the weakest dimension in reflecting the Information System Implementation Success variable. For the CR value of $0.854 > 0.7$ and the VE value of $0.663 > 0.5$ so that it is reliable. This shows that these dimensions have consistency in measuring the variables of Information Systems Implementation Success.

2) Variable Quality of Higher Education Governance (QHEG)

The Quality of Higher Education Governance is measured by 5 (five) dimensions consisting of 20 indicators. The results of the CFA test with the second-order model for the Quality of Higher Education Governance variable, based on the results of the CFA test, it can be seen that there are indicators that have a loading factor below 0.5, namely y3, so it must be reduced from the model. After reduction, the results of the CFA test show that all indicators have a loading factor above 0.5, but the RMSEA value = $0.102 > 0.08$ so that it is necessary to carry out re-specification.

Based on the results of CFA testing after respecification, the value of RMSEA = $0.074 < 0.08$ and all indicators have a loading factor above 0.5, so it can be concluded that each indicator is valid as a measuring tool for the variable of Information Systems Implementation Success. For more details, see Table 6.

Table (6). Test Results of the Validity and Reliability of Governance Quality Variables (GQV)

Laten Variabel	Indicator	λ	λ^2	ϵ	CR	VE	Result
<i>First Order</i>							
GQV 1	y1	0,86	0,74	0,26	0,748	0,601	Reliabel
	y2	0,68	0,462	0,538			
	y4	0,65	0,423	0,578			
GQV 2	y5	0,7	0,49	0,51	0,834	0,505	Reliabel
	y6	0,8	0,64	0,36			
	y7	0,59	0,348	0,652			
	y8	0,79	0,624	0,376			
GQV 3	y9	0,88	0,774	0,226	0,819	0,609	Reliabel
	y10	0,86	0,74	0,26			
	y11	0,83	0,689	0,311			
	y12	0,69	0,476	0,524			
	y13	0,83	0,689	0,311			
GQV 4	y14	0,69	0,476	0,524	0,903	0,757	Reliabel
	y15	0,84	0,706	0,294			
	y16	0,66	0,436	0,564			
	y17	0,85	0,712	0,294			

GQV 5	y18	0,67	0,449	0,551	0,877	0,542	Reliabel
	y19	0,81	0,656	0,344			
	y20	0,85	0,736	0,296			
<i>Second Order</i>							
GQV	GQV1	0,8	0,64	0,36	0,937	0,834	Reliabel
	GQV2	0,97	0,941	0,059			
	GQV3	0,97	0,959	0,03			
	GQV4	0,85	0,723	0,278			
	GQV5	0,96	0,922	0,078			

Source: Data processing results (2020)

In the second-order test results, the Quality of Higher Education Governance variable, all dimensions have a loading factor above 0.5 so that all dimensions are valid in measuring the Quality of Higher Education Governance variables. Based on the results of the loading factor, it can be seen that the GQV2 dimension has the highest loading factor value compared to other dimensions, so that it is the strongest in reflecting the Quality of Higher Education Governance variables. The CR value is $0.937 > 0.7$ and the VE value is $0.834 > 0.5$ so it is reliable. This shows that these dimensions have consistency in measuring the Quality of Higher Education Governance variables.

3) Organizational Performance Variable (OPV)

Organizational Performance Variables are measured by 4 (four) dimensions consisting of 20 indicators. The results of the CFA test with the second-order model for the Organizational Performance variable based on the results of the CFA test all indicators have a loading factor above 0.5 and an RMSEA of $0.024 < 0.08$ so that it can be concluded that each indicator is valid as a measuring tool for the Organizational Performance variable. For more details, see Table 7.

Table (7). Results of Validity and Reliability Test of Organizational Performance Variables (OPV)

Latent Variable	Indicator	λ	λ^2	ε	CR	VE	Result
<i>First Order</i>							
OPV 1	z1	0,58	0,336	0,664	0,81	0,594	Reliabel
	z2	0,84	0,706	0,294			
	z3	0,86	0,74	0,26			
	z4	0,56	0,314	0,686			
	z5	0,89	0,792	0,208			
OPV 2	z6	0,85	0,723	0,278	0,765	0,62	Reliabel
	z7	0,86	0,74	0,26			
	z8	0,68	0,462	0,538			
	z9	0,65	0,423	0,578			
	z10	0,7	0,49	0,51			
	z11	0,8	0,64	0,36			
	z12	0,59	0,348	0,652			
OPV 3	z13	0,79	0,624	0,376	0,731	0,545	Reliabel
	z14	0,88	0,774	0,226			
	z15	0,81	0,704	0,226			
OPV4	z16	0,83	0,689	0,311	0,773	0,459	Reliabel
	z17	0,69	0,476	0,524			
	z18	0,83	0,689	0,311			
	z19	0,69	0,476	0,524			
	z20	0,72	0,518	0,482			

Second Order							
Performance	OPV 1	0,85	0,723	0,278	0,907	0,767	Reliabel
	OPV2	0,81	0,656	0,344			
	OPV3	0,96	0,922	0,078			
	OPV4	0,91	0,822	0,071			

Source: Data processing results (2020)

In the second-order test results for the Organizational Performance variable, all dimensions have a loading factor above 0.5 so that all dimensions are valid in measuring the Organizational Performance variable. Based on the results of the loading factor, it can be seen that the OPV3 dimension has the highest loading factor value compared to other dimensions, so that it is strongest in reflecting the Organizational Performance variable. The CR value is $0.907 > 0.7$ and the VE value is $0.767 > 0.5$ so it is reliable. This shows that these dimensions have consistency in measuring the Organizational Performance variable.

4.4. Goodness of Fit Model

For the full model SEM testing is carried out with 2 (two) types of testing, namely model suitability and model hypothesis testing. SEM full model testing is used to see the feasibility of the model or the suitability of the model. Evaluation of the good fit of the structural equation model by comparing the recommended fit index values as presented in Table 8.

Table (8). The goodness of Fit Index Results or Evaluation of Structural Model Fit Indices

No.	Goodness of Fit	Target Value	Value	Description
1	Chi-square (P-value)	getting smaller P-value $\geq 0,05$	180,58 (0,000)	-
2	RMSEA	RMSEA $\leq 0,08$	0,070	Good fit
3	NFI	NFI $\geq 0,90$	0,98	Good fit
4	NNFI	NNFI $\geq 0,90$	0,98	Good fit
5	CFI	CFI $\geq 0,90$	0,99	Good fit
6	IFI	IFI $\geq 0,90$	0,99	Good fit
7	RFI	RFI $\geq 0,90$	0,97	Good fit
8	SRMR	SRMR $\leq 0,05$	0,037	Good fit
9	GFI	GFI $\geq 0,90$	0,93	Good fit
10	AGFI	AGFI $\geq 0,90$	0,87	Marginal fit

Source: Data processing results (2020)

Based on Table 8, it can be seen that the overall model fit test results based on the RMSEA of 0.070 are fit, as well as almost all other GOF indices that have met the fit criteria so that they can be continued at the next analysis stage. After testing the suitability of the model, then testing the research hypothesis through a structural model.

Table (9). Summary of Statistical Tests Results for Indirect Effect through Quality of Higher Education

Correlation	Direct influence				Indirect Influence through the Quality of Higher Education Governance				Total Influence	
	path	T-Value	Path	T-Value	path	T-Value	path	T-Value	path	T-Value
$X_1 \rightarrow Z$	0,17	5,18	0,19	4,29			0,27	3,58		
$X_2 \rightarrow Z$	0,22	8,79	0,33	5,12			0,48	6,72		
$X_3 \rightarrow Z$	0,06	1,99	0,16	2,12			0,25	2,99		

Source: Data processing results (2020).

The value of the path coefficient of Information System Implementation Success (X3) on Organizational Performance (Z) through the Quality of Higher Education Governance (Y) is 0.16 in a positive direction. This means that the higher or better the success of Information Technology, which is mediated by the Quality of Higher Education Governance, the Organizational Performance will increase. Judging from the value of the path coefficient, the total effect of the Success of Information System Implementation on Organizational Performance through the Quality of Higher Education Governance is 0.25 higher than the direct effect of the Success of Information System Implementation on Organizational Performance of 0.06. For this reason, it can be concluded that the Success of Information System Implementation is able to improve the Quality of Higher Education Governance on Organizational Performance.

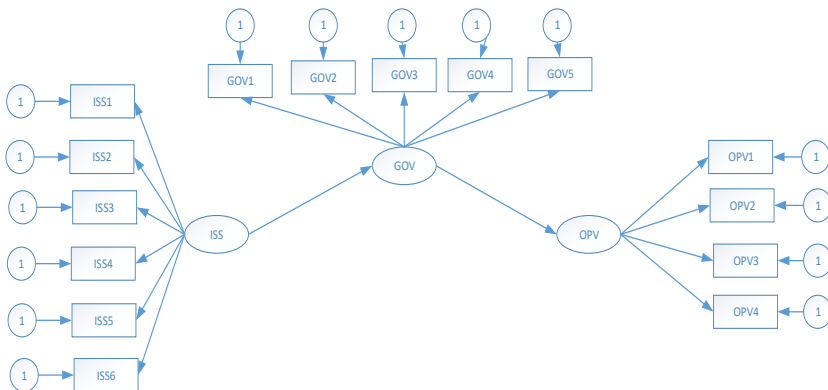


Figure 1. Full Model-Loading Factors

5. DISCUSSION

Table 4 shows that System Information success affects governance / GUG by 78%, and 22% is influenced by other factors. Governance / GUG affects Organizational Performance by 64%, and the remaining 36% is influenced by other factors. The success of Information systems affects organizational performance through governance by 71%, and the remaining 39% is influenced by other factors. Based on the hypothesis test, it is known that the value of $t_{count} = 2.99$, so that H_0 is rejected so that the Success of Information System Implementation has a positive effect on the Quality of Higher Education Governance.

The results of the path coefficient significance test on the structural model show hypothesis testing that the Success of Information System Implementation has a positive effect on the Quality of Higher Education Governance. This is evidenced by the t_{count} of 2.99 exceeding the 1.96 thresholds at the 95% significance level. Successful Information System Implementation has 6 (six) dimensions, namely: System Quality (KS), Information Quality (KI), Service Quality (KL), User Satisfaction (KP), Net Benefits (MB), and Usage (USE).

Based on the ranking of each loading factor value, the dimensions that best reflect the Success of Information System Implementation are information quality (0.88), system quality (0.86), usage (0.79), net benefits (0.78), satisfaction. Users (0.76) and service quality (0.69).

Verificatively, the dimension of information quality has been shown to affect the Quality of Higher Education Governance based on the indicators used. This is in line with the results of the score on the dimension of information quality that all indicators get a fairly good response. This shows that the university in West Java understands the effect of system complexity on the management of PT. For this reason, improving the Quality of Higher Education Governance can be reflected through improving the quality of

information so that it can handle the number of transactions at universities that must be carried out in a short span of time.

Furthermore, the dimension of system quality has been shown to affect the Quality of Higher Education Governance based on the indicators used. This is consistent with the results of the score on the dimension of system quality that all indicators get a fairly good response. This shows that universities in West Java understand the effect of the complexity of the quality system on the implementation of education on campus. For this reason, improving the Quality of Higher Education Governance can be reflected through increasing system resources so that they can handle the large number of organizational units managed by the entity and seek clarity of information as a source of determining educational policy.

The dimension of service quality is also proven to affect the quality of higher education governance, although only based on indicators; this shows that universities in West Java understand the effect of service quality on the implementation of educational hearing. For this reason, improving the Quality of Higher Education Governance can be reflected through the preparation of service programs to be more systematic so as to bridge the many complaints that occur.

Furthermore, the dimensions of use have been shown to affect the Quality of Higher Education Governance based on the indicators used. This is in line with the results of the score on the dimensions of use that all indicators get a pretty good response. This shows that universities in West Java understand the influence of complexity of use by stakeholders on the implementation of education on campus. For this reason, improving the Quality of Higher Education Governance can be reflected through increasing system resources so that they can handle the large number of organizational units managed by the entity and seek clarity of information as a source of determining educational policy.

The dimensions of user satisfaction have been shown to affect the quality of higher education governance based on the indicators used. This is in line with the results of the score on the dimensions of user satisfaction that all indicators get a pretty good response. This shows that universities in West Java understand the influence of the complexity of user satisfaction, namely the stakeholders in the implementation of education on campus. For this reason, improving the Quality of Higher Education Governance can be reflected through increasing system resources so that they can handle the large number of organizational units managed by the entity and seek clarity of information as a source of determining educational policy.

The net benefit dimension is also proven to be able to affect the Quality of Higher Education Governance, although only based on indicators; this shows that universities in West Java understand the effect of net benefits on the implementation of educational hearing. For this reason, improving the Quality of Higher Education Governance can be reflected through the preparation of service programs to be more systematic so as to bridge the many complaints that occur.

The six dimensions of Information System Implementation Success in this study are proven to affect the Quality of Higher Education Governance. The results of this study provide empirical evidence that the Success of Information Systems Implementation has a positive effect on the Quality of Higher Education Governance. It can also be interpreted that the Quality of Higher Education Governance can be improved if it is supported by dealing with problems of Successful Information System Implementation which is reflected in the dimensions of System Quality (KS), Information Quality (KI), Service Quality (KL), User Satisfaction (KP), Net Benefits (MB) and Usage (USE).

Information System which is part of IT is an important part of using IT. The use of Sistem Information in an organization can help make it easier for the organization to run its business. To make it easier to process information from various System Information that an organization has, integrated System Information is required.

Integrated System Informasi can provide support in providing integrated data and information in all related organizational units. The implementation of an integrated Information System in an organization will bring changes in the organization. Acceptance and rejection of the adoption and implementation of System Information will occur and cause turmoil in the organization. To see the extent to which users are ready to

adopt integrated System Information, an evaluation of the process is required. To see the extent to which users are ready to adopt integrated Information System, an evaluation of the process is required. Human (human), organization (organization) and technology (technology) variables are the main and fundamental things that influence the successful adoption and implementation of System Information in an organization.

Based on data analysis, the results of this study are in accordance with previous research which explains that the successful implementation of information systems is one of the factors that affect the quality of higher education governance. Based on the results of this study, it is answered that the successful implementation of high information systems can improve the quality of higher education governance.

6. CONCLUSION

Based on the phenomena, the formulation of study, the hypothesis, and the results conducted at universities in West Java, the conclusions are as follows:

- 1) Information System Implementation Success has a positive influence directly on University Governance.
- 2) University Governance has a positive influence directly on Organization Performance.
- 3) Information System Implementation Success has a positive influence indirectly on the Organization's Performance (through University Governance).

Based on the results, the discussion, and the conclusion in this study, researchers suggest Universities with accreditation B and C must improve Information System Implementation Success. Therefore, they can improve Governance Quality directly, and accordingly have an impact on improving University performance. Besides that, the indicators of Governance Quality must also be a concern to improve the university organization's performance.

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