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RISK MANAGEMENT ANALYSIS BASED ON ISO 13000 AT NC UNIVERSITY

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ARTICLE INFO	ABSTRACT
ARTICLE INFO Received: January, 26 th 2022 Revised: February, 17 th 2022 Approved: February, 18 th 2022	In order to improve organizational governance, universities are required to carry out risk management. This study aims to help NC University to identify, analyze, evaluate and treat risks systematically. This research is a qualitative research. The data were analyzed descriptively based on the ISO 31000:2018 risk management framework, namely a risk assessment which includes identification, analysis and evaluation of risks as well as risk treatment. The result of this research is that there are risks that have been identified based on three categories, namely strategic risk, operational risk, and financial risk. In addition, there are several risk treatment actions taken
KEYWORDS	Management Risk ISO 31000
KET WORDS	This work is lighted and a Costing Comment
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INTRODUCTION

Universities are required by the government to carry out risk management as part of the implementation of the Government Internal Control System (SPIP) as stipulated in Government Regulation Number 60 of 2008 concerning the Government's Internal Control System. There are five elements in the SPIP, namely the control environment, risk assessment, control activities, information, communication, and monitoring (SUGIYONO, Miqdad, & Sulistiyo, 2021).

One of the elements of SPIP, namely risk assessment, is intended to improve organizational governance through the implementation of risk management (Purwanto, Sp, & Fitria, 2021). Risk is something that leads to uncertainty over the occurrence of an event during a certain time interval where the event causes a loss, both small losses that

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are not so significant or large losses that affect the survival of an organization (Lokobal, Sumajouw, & Sompie, 2014). Thus, risk management (risk management) becomes important for an organization, including educational institutions because educational activities cannot be separated from risks that can interfere with the achievement of educational goals.

There are 2 methods that are most often used in risk management, namely the COSO and ISO methods (Ariff et al., 2014). Both methods have been widely used by companies and agencies in various countries because they provide guidelines for implementing risk management that aim to support the level of effectiveness of risk management for its users. However, both have differences, namely where COSO views risk as an event that may occur and has a negative influence on the achievement of organizational goals (Arfiansyah, 2021). On the other hand, ISO defines risk as the effect of uncertainty on organizational goals (Lalonde & Boiral, 2012). Then to ensure that risk management runs effectively, ISO mentions eight principles that must be met (Hopkin, 2018). The eight principles include integrated, structured and comprehensive, according to organizational needs, inclusive, dynamic, based on the best available information, considering human and cultural factors, continuous improvement. Meanwhile COSO did not mention the principle (Paape & Speklé, 2012).

KMK number 577/KMK.01/2019 concerning Risk Management within the Ministry of Finance also uses ISO 31000:2018 as a reference in perfecting the Ministry of Finance's risk management standards. There are 3 elements of ISO 31000:2018 Risk management-guidelines used in the KMK which include principles, frameworks and risk management processes into a more open and interrelated system. In addition, ISO defines risk not only for events that have a negative effect (downside risk) but also the risk of having a positive impact (upside risk) for the achievement of organizational goals.

Risk Management is the process of identifying, assessing, and prioritizing risks followed by the coordination and application of economic resources to minimize, monitor and monitor the possibility of occurrence of unfavorable events. The risk management process includes the systematic application of policies, procedures, and various approaches to carry out communication and consultation, build context and assess risk, treat, monitor, review, record and report (to interested parties) (Bashynska, Kovalova, Malovichko, & Shirobokova, 2020).

NC University is one of the PTN designated as PTN BLU based on the Decree of the Minister of Finance (Kepmenkeu) in 2017 (Astawa, Prayudi, & Diputra, 2020). This change in status has made NC University serious in risk management. Based on the Regulation of the Minister of Finance (PMK) No. 200/PMK.05/2017 of 2017 which regulates the internal control system of the BLU. The PMK states that BLU leaders need to conduct a risk assessment to identify risks that exist within the organization and analyze these risks.

The application of risk management will help NC University as a PTN BLU in achieving organizational goals. Risk management is useful for NC University as PTN BLU in identifying what risk areas are faced and how risk management will help PTN BLU in achieving goals and improving the main performance of NC University. Implementation of risk management is able to minimize the possibility or consequences of unfavorable events. In addition, good risk management will increase the awareness of PTN BLU managers in making strategic and appropriate decisions based on the risk analysis that has been carried out. Based on the description of the background above, this research was conducted with the aim of conducting an analysis of risk management at the University of NC.

RESEARCH METHOD

This research approach uses a qualitative descriptive method with a case study at the University of NC as a BLU College (Syari'udin, Sutoyo, & Yulianti, 2021). This study uses an interactive model in the analysis of interview data. The interactive model uses 4 components, namely (1) data collection, (2) data reduction, (3) data presentation, and (4) conclusion or verification (Miles and Huberman, 1984; Sugiyono, 2019) (Isnaini & Ariyanti, 2020).

There are two (2) stages in this research, namely, first: a preliminary survey by distributing questionnaires to verify, clarify and find out whether or not the relevant risk variables obtained through literature studies and preliminary surveys of the heads of departments/work units at the university NC; the second stage, namely conducting a survey related to risk analysis. The survey results are processed using the Severity Index (SI) method (Haimovich et al., 2020).

RESULT AND DISCUSSION

The results of this study are divided into two parts based on the stages of research, namely:

1. Preliminary Survey

A survey of leaders within the University of NC, and obtained 30 respondents who are leaders in the University of NC from several classes of positions. Based on the returned questionnaire, information about the demographics of the respondents was obtained so that it can be seen the characteristics of the respondents who were the sample in this study (Luo, Lie, & Prinzen, 2020). In this section there is information about the gender, educational background, years of service and position of the respondents. The general description of the respondents can be seen in the following pictures:



Figure 1 Respondents by Gender Source: processed data, 2021



Based on Figure 2 that respondents with male sex as much as 57% while female sex as much as 43%. Thus, the majority of respondents in this study were women.

Figure 2 Respondents based on Educational Background

Figure 3 shows that most of the respondents' education levels are Masters with a presentation level of 60%, while respondents with S1 and S3 education levels are 20% each.



Figure 3 Respondents by Working Period

Figure 4 shows respondents based on years of service. Based on the figure, respondents with a tenure of 10 - 15 years are the most dominant, which is 36%, for a service period of 15 - 20 years by 17%, for a service period of >25 years by 23%, a service period of 20 - 25 years by 10%., and years of service <5 years and 5 - 10 years respectively at 7%.

Respondents based on position are shown in Figure 4. 44% of respondents served as sub-coordinators, 23% Chair/Secretary of Study Programs, Respondents with positions



as Dean/Vice Dean and Coordinator each 13%, and Head of Institution/unit 7% .

Figure 4 Respondents by Position

Based on the preliminary survey conducted, the results of the variable relevance test were obtained. In the risk variable relevance test phase, the researcher used the Guttman scale, the respondents were asked whether or not they agreed to the possibility of these risks within the University of NC. The statement agrees is that the risk variable is likely to occur at the University or has already occurred, while the statement disagrees is that the risk variable has no possibility of occurring or has never occurred at the University of NC. For a positive answer or agree it is given a score of 1, while for a negative answer or not it is given a score of 0. The score of the answers is then totaled, if the total score is > half of the total number of respondents, the answer is positive and vice versa (Perneger, Peytremann-Bridevaux, & Combescure, 2020).

No	Risk	Risk Variable	Agrr	ee	Not			
	Code				Ag	ree		
	A. Strat	egy and Planning Risk						
1	A1	Decreased accreditation of	23	77%	7	23%		
		universities/study programs						
2	A2	Undana's performance contract was not	23	77%	7	23%		
		achieved						
3	A3	Webometrics ranking drops	24	80%	6	20%		
4	A4	Decreased cooperation with external	25	83%	5	17%		
		parties						
5	A5	UKT rates are not in accordance with the	13	43%	1	57%		
		student's ability to pay			7			
6	A6	Decrease in the number of students	15	50%	1	50%		
					5			
7	A7	Financial Statements get an unqualified	25	83%	5	17%		
		opinion						
	B. Finar	nce Risk						
8	B1	PNBP receipts below the set target	16	53%	1	47%		
					4			
9	B2	Unaccountable financial accountability	19	63%	1	37%		
					1			

Table 1 Relevance Test Results for Risk Variables

10	B3	Financial realization does not match the	21	70%	9	30%			
		expected target							
C. Operational/Infrastructure risk									
11	C1	The ratio of lecturers and students does not	18	60%	1	40%			
		meet the accreditation requirements			2				
12	C2	The results of the lecturer's research do not	16	53%	1	47%			
		answer the community's needs			4				
13	C3	Scholarships are received by students who	14	47%	1	53%			
		are not right on target			6				
14	C4	The business unit did not achieve the	22	73%	8	27%			
		planned target							
15	C5	Business Units are not managed efficiently	22	73%	8	27%			
16	C6	Procurement of goods does not meet	20	67%	1	33%			
		specifications			0				
17	C7	There is an expensive price in the	22	73%	8	27%			
		procurement of goods/services							
18	C8	Asset administration and maintenance is	22	73%	8	27%			
		not going well							
19	C9	Handling of Inventory Change (Up) is	21	70%	9	30%			
		stagnating							
20	C10	Reporting of SPI audit results is not in	19	63%	1	37%			
		accordance with the set schedule			1				
21	C11	A fire occurred in the lecture	14	47%	1	53%			
		building/laboratory/office			6				
		building/multipurpose room							
22	C12	Website with undana.ac.id account hacked	14	47%	1	53%			
					6				
23	C13	Prolonged power outage	24	80%	6	20%			

Based on the results of the relevance test, 3 risk categories were identified at NC Universities, and most of them agreed that the risk occurred at NC Universities. As shown in Table 1. These risks are divided into 3 risk groups, namely:

a. Strategy and Planning Risk, which is a risk related to the strategic decisionmaking process. The risks that usually arise are unexpected conditions that reduce the company's or institution's ability to carry out the planned strategy in achieving the goals that have been set.

b. Finance Risk, is a risk that can affect the ability and financial stability of the company/institution.

c. Operational/Infrastructure risk, is a risk related to the failure of the company's/institution's internal process function. There are 4 common factors that cause operational risk, namely human error, process error, system error and error due to external factors.

2. Main Survey

After identifying the relevant risks at NC University, a main stage questionnaire survey was then conducted to conduct a risk analysis. The risk analysis phase begins by distributing the risk probability and impact questionnaire to the same 30 respondents before. Each probability and risk impact has 1-5 indices which have the following meanings:

-	Table 2 Table of Probability Criteria									
	Likelihood Level	Likelihood Criteria								
Indoka		Percentage of	The number of possible							
mueks		probability of	occurrences in 1 period							
		occurrence in 1 period								
1	Almost didn't happen	x < 5%	Very rarely							
2	Rarely happening	5% < x < 10%	<2 times in 1 year							
3	Sometimes it	10% < x < 20%	Rarely 2 times to 5 times							
	happens		in 1 year							
4	Often occurs	20% < x < 50%	Quite often 5 to 9 times							
			in 1 year							
5	It's almost certain to	x > 50%	Often 10 times to 12							
	happen		times in 1 year							

Table 3	Impact	Criteria
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		ImpactAre	a			
	Impost	Company	Decline in	Performance	Disruption to	Lawsuits
Index	Impact	Losses	Reputation	Drop	the	
	Level				Organization's	
					services	
1	Not	Total	Stakeholder	Achievement	Delayed	Number
	significant	loss $0-$	complaints	of	service in 1	of
		IDR 10	directly	performance	day	lawsuits
		million	verbally/written	targets		5 times
			to the			in one
			organization			period
			are about 3 in			
			one period			
2	Minor	Total	Stakeholder	Achievement	Service is	Number
		state	complaints	of	delayed more	of
		losses are	directly	performance	than 1 day to	lawsuits
		more	verbally/written	targets above	5 days	above 5
		than Rp.	to the	80% to		to 15
		10	organization	100%		times in
		million –	are more than 3			one
		Rp. 50	in one period			period
		million				
3	Sometimes	The total	Negative notice	Achievement	Service is	Number
	it happens	loss to	in local mass	of	delayed more	of
		the state	media	performance	than 5 days to	lawsuits

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		is more than Rp. 50 million – Rp. 100 million		targets above 50% to 80%	15 days	above 15 to 30 times in one period
4	Often occurs	The total loss to the state is more than Rp. 100 million – Rp. 500 million	Negative notice in national mass media	Achievement of performance targets above 25% to 50%	Service is delayed more than 15 days to 30 days	Number of lawsuits above 30 to 50 times in one period
5	It's almost certain to happen	The total loss to the state is more than Rp. 500 million	Negative notice in international mass media	Achievement of performance targets <25%	Service delayed more than 30 days	Number of lawsuits more than 50 times in one period

After the data is obtained, then the main survey results are analyzed using the Severity Index (SI) method. The aim is to obtain a combined result of the risk assessment of probability and impact. Based on the data obtained through questionnaires that have been distributed, the results of the analysis of the probability and impact risk assessment for all risk variables using the Severity Index (SI) method can be seen in Table 4 and Table 5.

Table 4 Results of Risk Variable Probability Assessment with SI

			Proba	bility					
		Alm	Rarel	Someti	Ofte	Alm	_		
			ost	У	mes	n	ost		
No	Rick	Code	does	Happ	Happe	Happ	certai	SI	Categ
110	IX15K	Coue	n't	ens	ns	ens	nly	(%)	ory
			happ				happ		
			en				ens	_	
			1	2	3	4	5		
	Strat	egy and Planning Risł	ς.						
1	A1	Decreased	2	3	2	15	8		4
		accreditation of						70,0	
		universities/study						0	
		programs							
2	A2	Undana's	2	4	10	4	10		4
		performance						63,3	

		contract was not						3	
		achieved							
3	A3	Webometrics	2	2	15	10	1		3
		ranking drops						55,0	
								0	
4	A4	Decreased	9	7	7	5	2		2
		cooperation with						36,6	
		external parties						7	
5	A5	UKT rates are not	6	4	9	10	1		3
		in accordance						46,6	
		with the student's						7	
		ability to pay							
6	A6	Decrease in the	1	4	5	10	10	70,0	4
		number of						0	
		students							
7	A7	Financial	5	1	11	9	4		3
		Statements get an						55,0	
		unqualified						0	
		opinion							
	Fina	nce Risk							
8	B1	PNBP receipts	2	6	12	8	2	51,6	3
		below the set						7	
		target							
9	B2	Unaccountable	5	3	3	7	12	65,0	4
		financial						0	
		accountability							
10	B3	Financial	3	7	6	11	3		3
		realization does						53,3	
		not match the						3	
		expected target							
	Oper	ational/Infrastructure	risk						
11	C1	The ratio of	7	9	6	7	1		3
		lecturers and						38,3	
		students does not						3	
		meet the							
		accreditation							
		requirements							
12	C2	The results of the	6	12	7	4	1		2
		lecturer's research						35,0	
		do not answer the						0	
		community's							
10		needs	14						
13	C3	Scholarships are	4	1	8	9	2	40.0	3
		received by						48,3	
		students who are						5	
	1	not right on target							

14	C4	The business unit	1	2	1	1	25	20 1	5
		the planned target						89,1 7	
15	C5	Business Units are	3	5	5	11	6		3
		not managed						60,0	
		efficiently						0	
16	C6	Procurement of	4	1	4	12	9		4
		goods does not						67,5	
		meet						0	
		specifications							
17	C7	There is an	5	1	5	3	16		4
		expensive price in						70,0	
		the procurement						0	
10	<u> </u>	of goods/services	~	2	-		11		4
18	68	Asset	5	3	6	6	11	611	4
		administration and						04,1 7	
		going well						/	
10	C0	Handling of	6	2	6	8	8		3
17	C	Inventory Change	0	2	0	0	0	58 3	5
		(Up) is stagnating						3	
20	C10	Reporting of SPI	9	10	4	5	2	-	2
		audit results is not						34,1	
		in accordance						7	
		with the set							
		schedule							
21	C11	The occurrence of	9	4	8	7	2		3
		a fire in the						40,8	
		lecture building /						3	
		laboratory / office							
		building /							
		multipurpose							
	010	room	1.6			1			
22	CI2	Website with	16	6	5	1	2	22.5	2
		undana.ac.id						22,5	
- 22	C12	account nacked	5	4	6	7	0	U	2
23	C13	Protonged power	2	4	0	/	δ	57 5	3
		outage						<i>37,</i> 3	
								U	

		Impact							
			Not	Mino	Mod	Signifi	Very		
NT	D' 1	0.1	Signi	r	erate	cant	Signi	SI	Catego
NO	K1SK	Code	fican				fican	(%)	ry
			t				t	, í	2
			1	2	3	4	5		
	Strat	egy and Planning Ris	k –		-	<u> </u>	-		
1	A1	Decreased	5	3	9	8	5	54.1	3
1		accreditation of	5	5	-	Ŭ	5	7	5
		universities/study							
		programs							
2	A2	Undana's	2	4	6	8	10	66.6	4
-		performance	-		0	Ŭ	10	7	•
		contract was not						,	
		achieved							
3	A3	Webometrics	1	17	4	6	2	42.5	3
	_	ranking drops		-		-		0	-
4	A4	Decreased	2	10	7	8	3	50,0	3
		cooperation with						0	
		external parties							
5	A5	UKT rates are not	4	8	6	6	6	51,6	3
		in accordance with						7	
		the student's							
		ability to pay							
6	A6	Decrease in the	3	3	6	8	10	65.8	4
		number of						3	
		students							
7	A7	Financial	6	5	7	8	4	49,1	3
		Statements get an						7	
		unqualified						-	
		opinion							
	Fina	ince Risk	1	1	1	1	1	1	1
8	B1	PNBP receipts	3	3	6	9	9		
Ũ	21	below the set	5	5	0	-	-	65.0	
		target						0	4
9	B2	Unaccountable	4	2	11	6	7		
Í		financial		-		Ĭ		58.3	
		accountability						3	3
10	B3	Financial	4	4	7	7	8	-	-
	-	realization does					-		
		not match the						59.1	
		expected target						7	3
	Oper	ational/Infrastructure	risk	<u>I</u>	1	<u>I</u>	1	1	-
1									

Table 5 Results of Risk Variable Impact Assessment with SI

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11	C1	The ratio of lecturers and students does not meet the accreditation requirements	4	3	8	8	7	59,1 7	3
12	C2	The results of the lecturer's research do not answer the community's needs	6	3	13	5	3	46,6 7	3
13	C3	Scholarships are received by students who are not right on target	10	5	9	3	3	36,6 7	2
14	C4	The business unit did not achieve the planned target	4	3	6	7	10	63,3 3	4
15	C5	Business Units are not managed efficiently	4	3	7	10	6	59,1 7	3
16	C6	Procurement of goods does not meet specifications	3	1	6	12	8	67,5 0	4
17	C7	There is an expensive price in the procurement of goods/services	4	2	8	7	9	62,5 0	3
18	C8	Asset administration and maintenance is not going well	3	1	7	8	11	69,1 7	4
19	C9	Handling of Inventory Change (Up) is stagnating	4	1	7	11	7	63,3 3	4
20	C1 0	Reporting of SPI audit results is not in accordance with the set schedule	4	12	3	8	3	45,0 0	3
21	C1 1	A fire occurred in the lecture building/laborator y/office building/multipurp ose room	3	6	6	7	8	59,1 7	3

22	C1	Website with	20	6	3	1	0	12,5	1
	2	undana.ac.id						0	
		account hacked							
23	C1	Prolonged power	2	2	6	8	12		4
	3	outage						71,6	
								7	

The following is an example of a calculation using the Severity Index (SI) method. Based on the data obtained through the questionnaire on the probability of the occurrence of A1 risk, namely "Decrease in university/study program accreditation", the following data were obtained, namely 2 respondents stated the probability of almost not happening (HTT/1), 3 respondents stated Rarely Occurred (JT/2), 2 respondents stated that it happens sometimes (KT/3), 15 respondents said it often happened (ST/4), 8 respondents said it almost certainly happened (HPT/5).

$$SI = \frac{\sum ai \cdot xi}{4\sum xi} x \ 100$$

Where: ai = research constant

xi = frequency of respondents i = 0, 1, 2, 3, 4...., n With : a0 = 0 x0 = for the answer Almost does not happen (HTT/1) a1= 1 x1 = for the answer Rarely Occurs (JT/2) a2 = 2 x2 = for the answer Sometimes Happens (KT/3) a3 = 3 x3 = for almost certain answer (HPT/4) a4 = 4 x4 = for the answer Very Often Happens (SST/5) $SI = \frac{\{(0x2) + (1x3) + (2x2) + (3x15) + (4x8)\}}{4 x 30} x 100$ SI = 70

After finding the SI value = 70, then this SI value is converted to the Probability and Impact assessment scale as follows:

Almost did not happen (HTT/1) = 0.00 SI < 12.5

Rarely Occurs (JT/2) = 12.5 SI < 37.5

Occasional (KT/3) = 37.5 SI< 62.5

Frequently Occurs (ST/4) = 62.5 SI < 87.5

Almost certain to happen (HPT/5) = 87.5 SI < 100

Based on the above criteria, the Probability category of A1 risk, namely "Decreased accreditation of universities/study programs" is almost certain to occur (HPT/4).

After the risk category is converted into the form of a number, a risk analysis of the probability x impact calculation can be carried out with the help of the Probability and Impact Matrix as shown in Table 6 and Table 7. Risk analysis is carried out by multiplying the results of the probability assessment (P) with the results of the impact assessment (I).) of each risk variable. The calculation results can be seen in Table 8.

From the results of the risk analysis in table 8, it is found that several risk variables have a fairly large value compared to other risks, namely the extreme high category. These risks have the greatest probability of occurring and have a significant impact on NC University.

Level	Risk Level	Priority Risk	Amount of Risk	Colour
5	Very high	1	25	
		2	24	
		3	23	
4	Tall	4	22	
		5	21	
		6	20	
		7	19	
		8	18	
3	Currently	9	17	
		10	16	
		11	15	
		12	14	
		13	13	
		14	12	
		15	11	
		16	10	
		17	9	
2	Low	18	8	
		19	7	
		20	6	
		21	5	
		22	4	
1	Very low	23	3	
		24	2	
		25	1	

Tabel 6 Matriks Analisis Risiko

Table 7 Matrix of ISO 31000:2018 Risk Analysis

Risk Analysis Matrix	Impact Leve	Impact Level							
(Risk Priority Scale)	Not Significant	Minor	Moderate	Significant	Very Significant				
Almost Definitely	17	10	6	3	1				
Often occurs	20	13	8	4	2				

Sometimes Happens	22	15	11	7	5
Rarely happening	24	19	14	12	9
Hardly Happened	25	23	21	18	16

			Table 8 F	Risk Anal	ysis Matrix			
	5 = Sangat Besar				C4			
	(> 80%)	5	10		20	25		
as	4 – Besal (60% < p < 80%)	4	8			20		Extreme High
bilit	3 = Sedang		<u>8</u>	A3 A5 A7 B3	800			g.
obal	(40% < p ≤ 60%)	3	6	0000	12	15		High Risk
P	2 = Kecil	2		A4@00				
	(10% 1 = Sangat Kecil	2	4	6	8	10		Medium Risk
	≤ 10%	1	2	. 3	4	5		Low Risk
		1 = Insignificant	2 = Minor	3 = Moderate	4 = Significant	5 = Catastrophic		
				Dampak				
		Ta	able 9 Pro	bability x	Impact Ri	sk		
No	Risk	Risk Variabl	le	-	Probab	Impact	P x I	Risk
	Code				ility	-		Category
1	A1	Decreased a	ccreditatio	on of	4	3	12	High
		universities/	study prog	grams				-
2	A2	Non-achieve	ement of	-	4	4	16	Extreme
		performance	contract					High
3	A3	Webometric	s ranking	drops	3	3	9	High
4	A4	Decreased co	ooperatio	n with	2	3	6	Medium
		external part	ies					
5	A5	UKT rates a	re not in		3	3	9	High
		accordance v	with the st	tudent's				C
		ability to pay	y					
6	A6	Decrease in	the numb	er of	4	4	16	Extreme
		students						High
7	A7	Financial Sta	atements	get an	3	3	9	High
		unqualified of	opinion					
8	B1	PNBP receip	ots below	the set	3	4	12	High
		target						0
9	B2	Unaccountal	ole financ	ial	4	3	12	High
		accountabili	ty					C
10	B3	Financial rea	alization c	loes not	3	3	9	High
		match the ex	pected ta	rget				C
11	C1	The ratio of	- lecturers	and	3	3	9	High
••	01	students doe	s not mee	t the	2	-	-	8
		accreditation	requiren	nents				
12	C2	The results of	of the lect	urer's	2	3	6	Medium
	~-	research do	not answe	er the	-	-	-	

community's needs

13	C3	Scholarships are received by students who are not right on target	3	2	6	Medium
14	C4	The business unit did not achieve the planned target	5	4	20	Extreme High
15	C5	Business Units are not managed efficiently	3	3	9	High
16	C6	Procurement of goods does not meet specifications	4	4	16	Extreme High
17	C7	There is an expensive price in the procurement of goods/services	4	3	12	High
18	C8	Asset administration and maintenance is not going well	4	4	16	Extreme High
19	C9	Handling of Inventory Change (Up) is stagnating	3	4	12	High
20	C10	Reporting of SPI audit results is not in accordance with the set schedule	2	3	6	Medium
21	C11	A fire occurred in the lecture building/laboratory/office building/multipurpose room	3	3	9	High
22	C12	Website with undana.ac.id account hacked	2	1	2	Low
23	C13	Prolonged power outage	3	4	12	High

Based on Table 9, it is known that of the 23 identified risks, there are 5 risks that fall into the Extreme High category, meaning that these 5 risks must be handled immediately. There are 13 risks in the High category, 4 risks in the Medium category and 1 risk in the low category.

There are 5 actions that can be taken to deal with these risks, namely:

1. Avoid

This action is carried out by not carrying out activities that can cause these risks. 2. Share

Risk treatment by dividing the process stages which are handled by other institutions and each is responsible for the stages of its work.

3. Transfer

This action is carried out by dividing the risk by buying insurance, reinsurance and doing hedging.

4. Reduce

Risk treatment by reducing the possibility of risk occurring through the creation of procedures and internal control, training, internal socialization.

5. Receive

This action means accepting risk because it cannot be avoided or reduced because it is part of the organization's scope of work.

The same questionnaire was given to the respondents to see how the respondents think about dealing with these risks. Respondents' answers varied, processed using the same method, namely the Severity Index (SI) method. The following is the response of respondents to the risk treatment that has been identified in table 10. Table 10 Responses to Dominant Risks

			Impact						
No	Risk	c Code	Avoid	Shari ng	Tran sfer	Red uce	Re cei ve	SI (%)	Cate gory
			1	2	3	4	5		
	Stra	tegy and Planning Risk							
1	A1	Decreased accreditation of universities/study programs	4	2	0	22	2	63,33	4
2	A2	Undana's performance contract was not achieved	0	5	0	20	5	70,83	4
3	A3	Webometrics ranking drops	0	4	0	19	6	70,83	4
4	A4	Decreased cooperation with external parties	0	6	1	21	3	69,17	4
5	A5	UKT rates are not in accordance with the student's ability to pay	3	2	1	23	1	64,17	4
6	A6	Decrease in the number of students	1	1	0	25	3	73,33	4
7	A7	Financial Statements get an unqualified opinion	5	3	0	15	7	63,33	4
	Find	ance Risk							
8	B1	PNBP receipts below the set target	3	3	0	21	3	65 0	5,0 4
9	B2	Unaccountable financial accountability	2	2	1	22	3	68 3	3,3 4
10	B3	Financial realization does not match the expected target	4	2	1	20	3	63 3	3,3 4
	Ope	rational Risk							
11	C1	The ratio of lecturers and students does not meet the accreditation requirements	4	2	1	21	2	62 0	2,5 4

12	C2	The results of the lecturer's research do not answer the community's needs	3	1	2	23	1	65,0 0	4
13	C3	Scholarships are received by students who are not right on target	7	19	1	3	0	25,0 0	2
14	C4	The business unit did not achieve the planned target	2	0	3	19	6	72,5 0	4
15	C5	Business Units are not managed efficiently	2	3	2	19	4	66,6 7	4
16	C6	Procurement of goods does not meet specifications	4	1	1	22	2	64,1 7	4
17	C7	There is an expensive price in the procurement of goods/services	2	5	0	20	3	64,1 7	4
18	C8	Asset administration and maintenance is not going well	2	3	0	25	0	65,0 0	4
19	C9	Handling of Inventory Change (Up) is stagnating	3	3	1	19	4	65,0 0	4
20	C1 0	Reporting of SPI audit results is not in accordance with the set schedule	4	2	1	14	9	68,3 3	4
21	C1 1	A fire occurred in the lecture building/laboratory/offic e building/multipurpose room	1	1	26	2	0	49,1 7	3
22	C1 2	Website with undana.ac.id account hacked	7	2	3	18	0	51,6 7	3
23	C1 3	Prolonged power outage	3	8	4	11	4	54,1 7	3

	Table 11 Responses to Dominant Risks									
No	Risk	Variable Risk	Type of Risk	Handling						
	Code									
1	A2	Non-achievement of performance contract	Extreme High	Reduce						
2	A6	Decrease in the number of students	Extreme High	Reduce						

3	C4	The business unit did not achieve	Extreme High	Reduce
_		the planned target		
4	C6	Procurement of goods does not meet specifications	Extreme High	Reduce
5	C8	Asset administration and maintenance is not going well	Extreme High	Reduce

Based on table 10, it is known that most of the risks are handled by respondents by reducing risk, namely 83% of the total respondents, while those who choose to transfer risk are 13%, and share risk is 4%. Risk management against 5 extreme high risks is dominated by risk reduction measures. This action can be done by making policies that can reduce these risks by using cost and benefit analysis.

CONCLUSION

Based on the results and discussion of this research, it can be concluded that after risk identification there are twenty-three risks identified at NC University based on three types of risks, namely Strategy and Planning Risk with 7 risks, Finance Risk with 3 risks, and Operational/Infrastructure risk. as many as 13 risks.

The results of the risk analysis show that of the twenty-three identified risks, there are 5 risks that fall into the Extreme High category, meaning that these 5 risks must be handled immediately, 13 risks in the High category, 4 risks in the Medium category and 1 risk in the low category. Risk management actions are carried out by reducing risk for 19 risks, which is 83% of the total respondents, while those who choose to transfer risk are 13%, or 3 risks and share and accept risk of 4%, namely 1 risk.

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