

## Performance Evaluation of Academic Services in the University Using the Balanced Scorecard: A Study at an Indonesian Open University

Rhini Fatma Sari<sup>a</sup>, Muchlis R. Luddin<sup>b</sup>, Abdul Rahmat<sup>c</sup>, <sup>a</sup>Program Studi Pendidikan Ekonomi FKIP Universitas Terbuka, <sup>b</sup>Pasca Sarjana Universitas Negeri Jakarta, <sup>c</sup>Universitas Negeri Gorontalo Indonesia, Email: <sup>a</sup>rins@ecampus.ut.ac.id, <sup>b</sup>mrantni\_luddin@yahoo.com, <sup>c</sup>abdulrahmat@ung.ac.id

The aim of this research is to evaluate the performance of academic services at Open University (UT) by using the modified balanced scorecard. Through evaluation, the research found out the level of achievement of UT's strategic plans to achieve the vision and mission of UT. The perspectives of the BSC evaluated at UT's academic services are as follows: (1) customer perspective, (2) financial perspective, (3) internal business perspective and (4) innovation and learning perspective. The evaluation was carried out by interviewing, questionnaires to 358 respondents and document analysis of the Annual Reports in 2013 and 2014. The quantitative data processing was conducted using Customer Satisfaction Index (CSI) and Importance Performance Analysis (IPA). The evaluation result showed that the performance of Academic Services of UT is in a very good condition (healthy condition), which has an "A" category with a 74, 11 score of the whole performance. The evaluation result showed that the performance of the academic services of UT from a customer perspective is at a level of 67.54% of the index, while 75.44% of the index was on financial perspective, 78.32% of the index was on internal business process perspective and 76.61% of the index was on learning and growth perspective.

**Keywords:** Performance evaluation, Balance scorecard, Perspective of BSC, CSI, IPA, Performance index.

#### Introduction



The Open University (UT) is an educational institution that combines the concepts of open learning and distance education. The Open University today has 533,327 students (http://www.ut.ac.id). It is divided into five faculties: Teaching and Education Science (FKIP), Mathematics and Natural Science (FMIPA), Social and Political Science (FISIP), Economics (FEKON), and postgraduate studies. These faculties are spread over 39 Long Distance Program Units (UPBJJ) throughout Indonesia and overseas. The implementation of education programs in the Open University (UT) requires strategic managerial support which will direct the vision, mission, and goals. The development plan for the Open University is described in the Strategic Plan 2010-2021 and Operational Plan 2010 – 2013. Academic services are conducted in the Central Open University and in 39 Long Distance Program Units, which are spread over 34 provinces and one overseas service unit. These services are standardised with the Open University Quality Assurance System (SIMINTAS UT) that is accredited both nationally and internationally.

The balanced scorecard was originally designed for business organisations (Kaplan, Robert S, Norton, 1996a, 1996b). Further developments in the balanced scorecard are also used to measure public sector performance (Wilson, Hagarty, & Gauthier, 2004), including education (Maria, Wijaya, & Fibriani, 2013; Nayeri, M.D, Mashhadi, M.M, 2008; Schobel & Scholey, 2012; Strang, 2010; Taylor & Baines, 2012; Umayal Karpagam & Suganthi, 2012; Chen, Yang, & Shiau, 2006). Research in Taiwan also explains that the balanced scorecard can be used to evaluate management policies in universities (Chen et al., 2006). Research on the application of the balanced scorecard in education shows that the balanced scorecard is a performance assessment that is used to align communication and strategy in higher education (Taylor & Baines, 2012). The balanced scorecard can also be used for performance appraisal in every perspective (Schobel & Scholey, 2012; Umayal Karpagam & Suganthi, 2012).

Several studies on the application of the balanced scorecard in performance appraisal at the university were conducted (Kyong Jee Kim and Curtis J Bonk, 2006; Ryan Watkins and Roger Kaufman, 2003). But there has not been much research at distance universities, especially in Indonesia. This research is very interesting because of the characteristics of distance universities, as these have a more dynamic performance assessment model.

This research is conducted to discover how far the Open University Strategic Plan (Renstra UT) has achieved performances that lead to the achievement of the open university vision and mission. The balanced scorecard (BSC), which was developed by Kaplan, Robert S and David P. Norton (Kaplan, Robert S, Norton, 1996, 2001; R. S. dan D. P. N. Kaplan, 1996; R. S. Kaplan, 2012; Kaye Shelton, 2006) was chosen in order to evaluate all the components of the Open University academic services from the four perspectives of the BSC: customer perspective, internal business perspective, innovation and learning perspective, and financial perspective. Measuring performance with a balanced scorecard and key performance



indicators with an importance performance analysis (IPA) and customer satisfaction index (CSI) analysis tool can show the performance value of Open University academic services to students and stakeholders from every BSC perspective.

#### **Performance Evaluation**

Evaluation is the process of seeking useful information to evaluate the presence of a program; the production, the procedure, the goal, or to evaluate an alternative approach of the program and to achieve the specified program goals. Evaluation is a scoring activity to a phenomenon that contains specific value judgment. Ralph Tyler in Bellack, Arno A. And Kliebard (1977), defined evaluation as a "process by which one matches initial expectations in the form of behavioural objectives with outcomes." Furthermore, it is said that, "the process of evaluation is essentially the process of determining to what extent the educational objectives are actually being realised by the program of curriculum and instruction." Another definition of evaluation is, "evaluation is the systematic assessment of an objective merit, worth, probity, feasibility, safety, significance and/ or equity" (Stufflebeam, 2007).

Performance evaluation is a process that is used by an organisation to evaluate job performance. Strategically, performance evaluation requires a mechanism to ensure that the organization is able to satisfactorily implement its strategies. The standard to evaluate performance, which was stated by Daniel Stufflebeam (2007), and adopted by the Joint Committee (1988), is namely: (a) utility, (b) accuracy, (c) feasibility, and (d) propriety, in order to give positive impact to the development of the program.

As an educational institution, a university possesses core businesses in the fields of teaching and research. Both core businesses have become key variables that contribute to the success of the organisation. According to Weigert (1998), an academic service is, "a teaching and learning strategy that integrates meaningful community service with instruction and reflection to enrich the learning experience, teach civic responsibility, and strengthen communities." The outcomes of academic services that are provided by a college will influence academic performance

(http://wiki.answers.com/Q/How\_anxiety\_effects\_on\_academic\_performance). In order to evaluate the success of a university in providing academic services to its students, a series of performance evaluation for academic services is needed.

#### **Balanced Scorecard**

The balanced scorecard is a performance evaluation means which aims to enable an organisation to evaluate its own strategic goals achievement. The concept of the balanced scorecard was developed initially as a performance measurement system in 1992 by Dr.



Robert Kaplan and Dr. David Norton in the Harvard Business School. Kaplan and Norton (1996), state that balanced scorecard is,

"a set a set of measures that gives top managers a fast but comprehensive view of the business... [it] includes financial measures that tell the results of actions already taken... [it] complements the financial measures with the operational measures on customers satisfaction, internal process, and the organisation's innovation and improvement activities - operational measures that are the drivers of the future financial performance."

According to Kaplan and Norton (1996), an organisation can measure its long-term performance by using given indicators and benchmarks. The balanced scorecard provides answers to four fundamental questions:

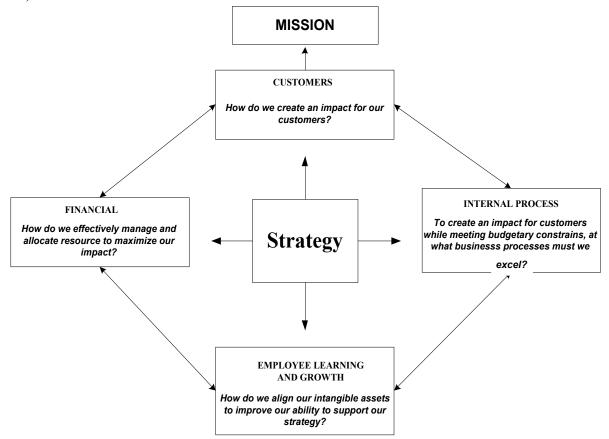
- 1. How do customers see us? (Customer and stakeholders Perspective)
- 2. How do we look to shareholders? (Financial Perspective)
- 3. Can we continue to improve and create value? (Growth and Learning Perspective)
- 4. What must we excel at? (Internal Business Process Perspective)

The balanced scorecard concept was originally designed for business organisations, but in subsequent developments began to be applied to public sector organisations and and non-profit organisations. The prominent difference between public sector organisations and public sector organisations is the goal; public sector organisations are not very profit-oriented, unlike the business sector. However, a method of measuring the effectiveness and efficiency in providing services to the community is needed. Some changes were made in the concept of the balanced scorecard in the public sector, in the form of: 1) a framework change in which the driver in a balanced scorecard for public organisations is a mission to serve the community; 2) a change of position between a financial perspective and a customer perspective; 3) a change of customer perspective to the perspective of customers and stakeholders; 4) a change of the perspective of learning and growth into the perspective of employees and organisational capacity.

In contrast to the implementation of the balanced scorecard in business organisations, the implementation of the balanced scorecard in public organisations, including educational institutions, requires some framework changes. In public organisations that become drivers is a mission to serve the community, and therefore focus on customer perspective (Mahmudi, 2010). Balanced scorecards in the public and non-profit sectors are illustrated in Figure 1. The main concern of the mission of the organisation is towards the customer, not the finances. The placement of customer perspectives on the top shows that whatever the organisation does from the financial side, organisational development and internal processes, is intended to support customer perspectives.



**Figure 1.** Balanced Scorecard in the Public and Non-Profit Organisation Sector (Niven, 2008).



Currently, performance appraisal in educational institutions is necessary because the quality of higher education is one of the important criteria. The balanced scorecard can be used as a method of measuring and evaluating the performance of educational institutions, especially universities. Cullen, Joyce, Hassall, & Broadbent, (2003), explain that balanced scorecards can be used by educational institutions for organisational reinforcement management. Karathanos, D. and Karathanos P (2005), Chang & Chow (1999) and Cronje C.J and Vermaak F.N.S, (2004), empirically exemplify the application of the BSC in the educational environment. Taylor & Baines (2012), also state that continuous improvement is required for universities to maximise the strength of the balanced scorecard approach. This approach offers a performance assessment that can help in aligning communication and strategy in a university.

As with face-to-face universities, the development of online learning models in the technological era requires institutional development strategies and performance measures. Alstete & Beutell (2004), disclose the need for strategies and policies to make changes in the design of online learning, especially in the design of learning. Mary & Santovec (2004),



explain one of the challenges in the provision of distance education is how to assess the success of student academic programs and communications with administrators, and the impact of this program on the success of students in light of socio-economic background, geographical conditions and physical constraints. The balanced scorecard application can help provide a clear picture of how the institution should equally measure every perspective that influences.

Kaye Shelton (2006) and Taylor & Baines (2012) suggest that the development of scorecards used to measure the quality of online learning elements in universities can support strategic planning and develop programs for improvement. Schobel & Scholey (2012), also describe the strategy map and the balanced scorecard in distance education, with a focus on financial perspective impacting all other perspectives. Changes in the financial perspective on the strategy map will have an impact on the customer perspective, internal business process perspective, and learning and growth perspective.

#### **Key Performance Indicators**

Performance evaluation from each aspect is developed through performance measurement. Performance measurement refers to the indicator given by the management to measure, report, and improve performance. One performance measurement tool is Key Performance Indicators (KPI), which is a non-financial measurement, and is implemented as often as possible to show the next required action(s) (Parmenter, 2010). Before becoming a Key Performance Indicator (KPI), a performance measurement should be tested to ensure that KPI could provide the desired behaviour.

Research by Chen, Yang, & Shiau (2006) in Taiwan also explains that in order to evaluate the progress of strategic plan performance and strategic objectives, specific and simple performance measure indicators / PMIs should be established, enabling all staff to understand the balanced scorecard orientation in their day-to-day tasks.

#### **Research Method**

#### Method

The research method was arranged by adopting Creswell's research design in Brinkerhoff (1983) and adjusting it with performance evaluation, and with BSC Development Design (Supriyatno, 2014). The performance evaluation of the Open University Academic Services was carried out through a series of research evaluation activities that involved researchers, reviewers, internal respondents, and external respondents. This research was conducted by merging data from processing the questionnaire result of the internal and external



respondents, data from interviews with the students, and data from stakeholders and the head of UT regional office. The merged data then was compared with the quantitative data of the Open University Operational Plan from the years 2013 and 2014.

The evaluation tool is outlined in the form of questionnaires and interview guidelines to explore respondents' opinions regarding UT's performance in accordance with the strategic plan and operational plan that has been prepared. UT's performance evaluation with the balanced scorecard is carried out through the following steps: (1) review of the UT strategic plan for 20005-2021 and UT operational plans for 2013 and 2014 (2) develop and review evaluation tools by determining Key Performance Indicators (KPI) on UT academic services; (3) preparation of Open University academic service performance evaluation questionnaire based on compiled KPI; (4) collecting data in five UT Regional Offices with validated questionnaire; (5) evaluation of academic service performance at the Open University is done through distributing questionnaires to the respondents.

Determining the value of importance and service performance from each perspective can produce performance values for each perspective in the balanced scorecard which is calculated by the Customer Satisfaction Index (Lewis, 2004) and Importance-Performance Analysis (Martilla, 1977; Grigoroudis, Orfanoudaki, & Zopounidis, 2012), to determine the response of consumers to services based on the level of importance and performance of the service products. While the gap analysis (gap) is used to see the gap between the performance of a service product with consumer expectations of the service product.

#### Respondents

Respondents in this study were UT students, stakeholders, and university leaders (vice rectors, deans, vice deans, heads of departments, heads of institutions and study program leaders) and heads of the UT Regional Office, representing 37 UT Regional Offices throughout Indonesia on area criteria and number of students.

Student sampling used the stratification method of sampling. The sample of student respondents was taken from eight UT Regional Offices representing the West Indonesia Region (UT Regional Office Padang, UT Regional Office Medan and UT Regional Office Jakarta), Central Region of Indonesia (UT Regional Office of Samarinda, UT Regional Office Makasar and UT Regional Office Denpasar), Eastern Indonesia (UT Regional Office Jayapura, and UT Regional Office Kupang). Samples were also taken from respondent stakeholders at four UT Regional Offices (Padang, Samarinda, Denpasar and Jayapura).

The total number of respondents in this study were 358 respondents, consisting of 235 UT students, 39 respondent stakeholders and university leaders amounting to 79 respondents. The



study also used literature studies in addition to key informants. The study of literature is used as a reference for discussion in research.

#### Data Collection and Analysis

An evaluation instrument was compiled in questionnaire format and added to interview guidelines to delve into the respondents' opinions of the Open University performance, in accordance with the pre-set Strategic Plan and Operational Plan. The subject of this research was the Open University, specifically its central office and 39 regional offices throughout Indonesia. The performance measurement used in this research was Key Performance Indicators developed by R. Eko Indrajit dan R Djokopranoto (2006); Powar, K.B., Panda, Santosh., Bhalla (2000), and was adjusted to the Open University Strategic Plan.

The research data was accumulated using a qualitative approach and was supported by quantitative data. Qualitative data analysis was carried out using the interactive model of Miles, Mattew B dan Huberman (2009), resulting in conclusions in the form of causal relation or interactive, hypothesis or theory (Sugiyono, 2013). Data triangulation in the form of data validity and reliability was created referring to Sugiyono (2013). Quantitative analysis incorporated Importance Performance Analysis (IPA) tools to find the discrepancy between performance with expectancy from service products (Martilla, 1977; Grigoroudis, Orfanoudaki, & Zopounidis, 2012) and Customer Satisfaction Index (CSI) (Lewis, 2004) to analyse the extent of whole customer satisfaction. The standard criteria used to determine the Open University Academic Performance i refers to the standard criteria of Rangkuti (2011).

Table 1: Criteria Standards Performance Measurement with Balanced Scorecard

Condition	Category	Total Score (TS)
Very Healthy	AAA	≥ 95
	AA	80 <ts <95<="" td=""></ts>
	A	65 <ts <65<="" td=""></ts>
Less Healthy	BBB	50 <ts <65<="" td=""></ts>
	BB	40 <ts <50<="" td=""></ts>
	В	30 <ts <40<="" td=""></ts>
Unhealthy	CCC	20 <ts<30< td=""></ts<30<>
	CC	10 <ts <20<="" td=""></ts>
	С	TS <10

#### **Findings**

The performance evaluation of the Open University academic services using the balanced scorecard includes evaluation on (a) customer perspective, (b) financial perspective, (c)



internal business process perspective, and (d) learning and growth perspective. The questionnaire results for external respondents (students and stakeholders) and internal respondents (decision makers and executives in the Central Open University as well as the head of the regional office of the Open University in four regional office locations) can be seen in Table 2 below:

Table 2: UT Academic Services Performance Analysis using Balanced Scorecard

Internal Perspective	Customer Satisfaction Index	Information
Customer Perspective	67.54%	Satisfied
Financial Perspective	75.44%	Very Satisfied
Internal Business Process Perspective	78.32%	Very Satisfied
Learning and Growth Perspective	76.61%	Very Satisfied

The services attribute with the least satisfactory level is customer perspective, with 67.54% customer satisfaction level, (using four levels of criteria, 0-25% very dissatisfied; 26% -50% dissatisfied; 51% -75% satisfied; 76% -100% very satisfied). Comparative analysis between evaluation score (given by the respondents) with performance achievement value in the Rector's Report in 2013 and 2014 showed that 28.5% were able to achieve performance level over 100%; 28.5% services achieved performance level in between 90% - 99%, and 42.85% academic services achieved performance level in between 60% - 90%.



 Table 3: Performance Level Achievement from Customer Perspective

Con Crit	nponent eria	Measurement		Performa nce	Achieved Performance in UT Annual Report 2013 2014	
Use	fulness to the Customer					
P1	Study time completion	ST	3.03	2.97		
P2	Improving the quality of	P.2 IQ 1	3.19	2.95		63%
PZ	graduates	P.2.IQ 2	3.19	2.93		94%
	Number of registered	P3 NR 1				91.14%
P3	students in every study	P3 NR 2	3.00	2.75		168%
	program					10070
P4	Total number of students	P4 TN 1	3.00	2.72		
P4	in every study program	P4 TN 2	3.00	2.12		
P5	Geographical area balance	P5 GA1				
		P5 GA2	2.75	2.81		
		P5 GA3				
Qua	lity of the services offered		•	1		•
	Study program					
P6	accreditation	P6 Pac	3.46	3.22		71%
P7	University rankings	P7 Ur	3.30	3.11		100%
P8	ISO 9000 Certification	P8 ISO	3.16	3.22		75%
Cos	t of the services offered					
P9	The price of tuition for one	P9 Price				
	credit and the average cost	P9 Price 2	2.97	2.97		
	for one student in one year	P9 Price 3				

The Academic Services Performance that has been rated as very satisfying is the performance from the Internal Business Process Perspective, with the satisfaction level of 78.32%. Comparative analysis of the Open University performance that was reported in the Rector's Work Report in the years 2013 and 2014 showed that the Internal Business Process Perspective had largely achieved the target.



Table 4: Performance Achievement from Internal Business Process Perspective

PPF   Criteria	Compo	nent	Measureme	Signifi		Perfor	Achieved	d Performance
Paculity Developments	•			ncy			in UT Annual Report	
PPP1   Quality improvement of the lecturer's scientific research   PPP1 Q1   PPP1 Q2   PPP1 Q3   PPP1 Q4   PPP1 Q5   PPP1 Q4   PPP1 Q5   PPP1 Q5   PPP2 SP	Criteria		III	Level		папес	2013	2014
PPP1 Q2	Faculty	Developments						
PPP1 Q2	PPP1	Quality improvement of the	PPP1 Q1	3 10		3.00		
PPP1 Q3		lecturer's scientific research		3.17		3.00		75%
PPP1 Q4			PPP1 Q2				76%	112%
PPP1 QS			PPP1 Q3				63%	
PPP2   Scientific publication ratio of the lecturer in each year   PPP2 SP 2   PPP2 SP 3			PPP1 Q4				20%	910%
The Quality improvement of the community services			PPP1 Q5				146%	232%
PPP3   Quality improvement of the community services   PPP3   QIS   1	PPP2	Scientific publication ratio of	PPP2 SP1	3.11		2.84	63%	
PPP3   Quality improvement of the community services   1		the lecturer in each year	PPP2 SP 2				20%	910%
Community services			PPP2 SP 3				146%	232%
PPP3 QIS   2   200%   218,75%     2   200%   218,75%     2   2   2   2   2   2   2   2   2	PPP3	Quality improvement of the	PPP3 QIS	3.03		2.92		
2		community services	1					
2			PPP3 QIS				2000/	219.750/
The Quality of the Supporting Facility			2				200%	218,/5%
The Quality of the Supporting Facility			PPP3 QIS				1500/	2000/
The Quality of the Supporting Facility			3				150%	300%
The Quality of the Supporting Facility			PPP3 QIS					2600/
PPP4   Improve and solidify partnership networking with third parties   PPP4 IP 2   PPP4 IP 2   PPP4 IP 3   O%			4					200%
PPP4 IP 2  Continuous partnerships that support academic operational and administrative needs  PPP4 IP 3  PPP4 IP 4  Support academic operational and administrative needs  PPP4 IP 6  PPP4 IP 7  PPP4 IP 8  PPP4 IP 9  PPP4 IP 9  PPP5 IR 1  institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the  PPP5 IR 7  PPP5 IR 6  PPP5 IR 7	The Qu	ality of the Supporting Facility						
third parties  Continuous partnerships that support academic operational and administrative needs  PPP4 IP 3  PPP4 IP 4  PPP4 IP 5  PPP4 IP 6  PPP4 IP 7  PPP4 IP 8  PPP4 IP 9  PPP5 IR 1  institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the  respective from the support academic services from the support academic se		Improve and solidify	PPP4 IP 1	3.03	2.8	9	78%	
third parties  PPP4 IP 3  Continuous partnerships that support academic operational and administrative needs  PPP4 IP 5  PPP4 IP 6  PPP4 IP 7  PPP4 IP 8  PPP4 IP 9  PPP4 IP 9  PPP5 IR 1  institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the  representative services from the  PPP5 IR 7  PPP5 IR 6  PPP5 IR 7  PPP5 IR 6  PPP5 IR 7	PPP4	partnership networking with	PPP4 IP 2				00/	
Continuous partnerships that support academic operational and administrative needs  PPP4 IP 5 PPP4 IP 6 PPP4 IP 7 PPP4 IP 8 PPP4 IP 9 PPP5 IR 1 institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the  PPP4 IP 4 PPP4 IP 5 PPP4 IP 7 PPP4 IP 8 PPP5 IR 1 3.19 3.16 30% 30% 270% PPP4 IP 7 PPP5 IR 1 3.19 3.16 100% 75% 3.16 100% 100% PPP5 IR 3 PPP5 IR 3 PPP5 IR 4 PPP5 IR 5 Academic services from the PPP5 IR 6 PPP5 IR 7		third parties					0%	
Support academic operational and administrative needs			PPP4 IP 3				0%	
and administrative needs  PPP4 IP 6 PPP4 IP 7 PPP4 IP 8 PPP4 IP 9 PPP4 IP 9 PPP5 Improving reputation of the institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the  PPP5 IR 6 PPP5 IR 7 PPP5 IR 6 PPP5 IR 7  PPP5 IR 6 PPP5 IR 7		Continuous partnerships that	PPP4 IP 4				30%	
PPP4 IP 7 PPP4 IP 8 PPP4 IP 9 PPP5 Improving reputation of the institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the PPP5 IR 7  PPP4 IP 9 PPP4 IP 9 PPP5 IR 1 PPP5 IR 1 PPP5 IR 2 PPP5 IR 3 PPP5 IR 4 PPP5 IR 5 PPP5 IR 6 PPP5 IR 7		support academic operational	PPP4 IP 5					130%
PPP4 IP 8 PPP4 IP 9 PPP5 Improving reputation of the institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the PPP5 IR 7  PPP5 IR 1 PPP5 IR 1 PPP5 IR 2 PPP5 IR 3 PPP5 IR 4 PPP5 IR 5 PPP5 IR 6 PPP5 IR 7		and administrative needs	PPP4 IP 6					270%
PPP5 Improving reputation of the institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the representative regional office presentative reg			PPP4 IP 7					80%
PPP5 Improving reputation of the institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the action by creating attractive website, PPP5 IR 1			PPP4 IP 8					100%
institution by creating attractive website, representative regional office building, and acknowledgement of the academic services from the representative regional office building, and acknowledgement of the ppp5 IR 5 ppp5 IR 6 ppp5 IR 7 representative regional office building, and acknowledgement of the academic services from the ppp5 IR 7 representative regional office ppp5 IR 5 representative regional office ppp5 IR 5 representative regional office ppp5 IR 5 representative regional office ppp5 IR 6 representative regional office ppp5 IR 7 representative regional			PPP4 IP 9					90%
attractive website, representative regional office building, and acknowledgement of the academic services from the  attractive website, PPP5 IR 3 PPP5 IR 4 PPP5 IR 5 PPP5 IR 6 PPP5 IR 7	PPP5	Improving reputation of the	PPP5 IR 1	3.19	3.1	6	100%	
representative regional office building, and acknowledgement of the academic services from the PPP5 IR 7  representative regional office PPP5 IR 4  PPP5 IR 5  PPP5 IR 6  PPP5 IR 7		institution by creating	PPP5 IR 2	1			75%	
representative regional office building, and acknowledgement of the academic services from the PPP5 IR 7  representative regional office PPP5 IR 4  PPP5 IR 4  PPP5 IR 5  PPP5 IR 6  PPP5 IR 7		attractive website,	PPP5 IR 3				<10%	
building, and acknowledgement of the academic services from the PPP5 IR 5  PPP5 IR 6  PPP5 IR 7  100%		representative regional office					100%	
acknowledgement of the academic services from the PPP5 IR 6 PPP5 IR 7 PPP5 IR 7			PPP5 IR 5					60%
academic services from the PPP5 IR 7								70%
education community PPP5 IR 8		academic services from the						100%
1 1113110   100/0		education community	PPP5 IR 8					100%
3.3 Human Resources Quality	3.3 Hu	nan Resources Quality	1	I.	1		1	



Compo	nent	Measureme	Signif	ica	Perfor		Performance
Criteria		nt	ncy		mance		nual Report
Cittoria			Level		mance	2013	2014
PPP6	Always pushing the human	PPP6 HR 1	3.16	2.8	39	61.67%	96.6%
	resources of UT to study	PPP6 HR 2					100%
	independently at the	80%					10070
	individual level, group	PPP6 HR 3					
	level, or organisation level						
	until everyone becomes						100%
	very proficient in their own						
	work						
	Development of the	PPP7 OC 1					
PPP7	organisational culture that is		3.32 3.1	3.1	1		100%
111,	oriented in performance				. 1		10070
	quality						
	Development of the	PPP8 IC 1					
PPP8	innovative cultural principle		3.19	2.9	97		100%
	of the organisation						
PPP9	Development of integrated	PPP9 DI 1	3.26	3.1	17		
	quality assurance system	PPP9 DI 2				96%	
	that complies with the	PPP9 DI 3					75%
	standard	PPP9 DI 4					100%
		PPP9 DI 5					NA
	Quality Assurance System	PPP10 QA	3.11	3.0	8		50%
PPP10	through Human Resources						
	audit						
	Use, Development, and Applica		ology				
PPP1	Ratio Computer/Staff	PPP11 RC	3.19	3.2	24		
1			3.17	3.2	- 1		
PPP1	Ratio Computer/Lecturer	PPP12	3.17	3.2	22		
2		RCL	3.17	3.2			
	Sufficiency of the facility's	PPP13 FEq					
PPP1	equipment to support the						
3	long-distance learning		3.22	3.3	31		100%
	process in the central UT and						
	in regional offices						
The Qu	ality of the Supporting Facility	T	1	1		T	1
	Sufficiency of the facility's	PPP13					
PPP1	equipment to support the						
3	long-distance learning		3.22	3.3	31		100%
	process in the central UT and						
	in regional offices						



Table 4 shows that 33.3% of the Open University academic services had achieved performance levels beyond 100% from the Internal Business Process Perspective. 28.6% of academic services had achieved performance levels between 80% - 100%. Academic services that had performance levels between 50% - 79% amounted to 26.1% services. The Rector's Report showed that 11.9% of academic services had a performance level below 50%.

Services performance from the Learning and Growth Perspective shows the index score of 76.61% (Very Satisfying). The academic services from this perspective can still be increased to reach 100%, because there are 23.39% of respondents that are unsatisfied with the performance of the Open University academic services.

**Table 5**: Performance Achievement from Learning and Growth Perspective

Crit		Measurem ent	Significa ncy Level	Performa nce	Achiev	mance in Annual
	he Open University Performance	e from Custon	ner Perspec	tive		
1.1	Usefulness to the customer					
P1	Study time completion	P1 ST	3.03	2.97		
P2	Graduates quality	P2 GQ 1	3.19	2.95		63%
1 2	improvement	P2 GQ 2	3.19	2.93		94%
	Number of registered	P3 NR 1				91,14%
P3	students in every study	P3 NR 2	3.00	2.75		168%
	program					10070
P4	Total number of students in	P4 TNS 1	3.00	2.72		
P4	every study program	P4 TNS 2	3.00	2.12		
P5	Geographical area balance	P5 GA 1				
		P5 GA 2	2.75	2.81		
		P5 GA 3				
1.2	Quality of the services offered	l	1	l		,
P6	P6 Study program	P6 Sac	3.46	3.22		71%
Po	accreditation		3.40	3.22		/1%0
P7	P7 University rankings	P7 UR	3.30	3.11		100%
P8	P8 ISO 9000 Certification	P8 ISO	3.16	3.22		75%
1.3	Cost of the services offered					
P9	The price of tuition for one	P9 Price 1				
	credit and the average cost	P9 Price 2	2.97	2.97		
	for one student in one year	P9 Price 3				



The Financial Perspective has a CSI index of 75.44% (Very Satisfying). In this score range, 24.56% respondents are not satisfied with the Financial Perspective performance. In order to improve its performance, the Open University must focus on improving the performance of services attributes, which has the average score performance below the Weighted Score (WS). The result from the Importance Performance Analysis shows that the performance of the PK10 (Efficiency of teaching cost / student) is very important to the students and its performance still needs to be improved.

**Table 6:** Performance Achievement from Financial Perspective

Compo	onent Criteria	Criteria Measurement		Performa nce	Achieved Performance in UT Annual Report 2013 2014	
Fundi	ng Source				2013	2014
Tunun	Growth/increase of the	PK 1				
PK1	amount of funds compared to the previous year		3.267	3.200		90%
PK2	Financing from donors for the development of new learning services	PK2 Fin	2.933	2.733		
PK3	Total increase in funding	PK3 TInc	2.933	3.067		
	Incomes from academic activities	PK3 Inc A				
PK4	The amount of funding received from research funds	PK4 AFRF	2.750	2.400		
PK5	The amount of funding received from other activities related to either academic or non-academic services	PK5 AFAA	2.933	2.533		100%
PK6	The increase in income from the students in the form of tuition fees and other kinds of funding	PK6 IIS	3.267	3.200		
4.2 Fin	ancial management					



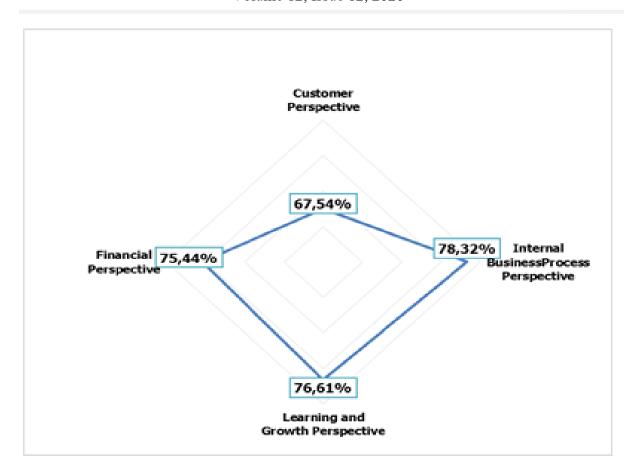
Compo	Component Criteria   Measurement		Significan cy Level	Performa nce	Achieved Performance in UT Annual Report	
PK7	Available budgets can	PK 7 AB			2013	2014
1 IX/	fund all financial	PK 7 AB 2	3.400	3.467		
	requirements of the	FK / AD 2	3.700	3.407		
	learning services					
PK8	The amount of costs of	PK 8 Cost				
T IXO	one activity unit	TR o Cost	3.267	3.200		
PK9	The increasing amount	PK9 Inc				
	of funding from the		2.933	3.067		
	students					
PK10	Efficiency of teaching	PK10 Eff.	3.133	3.000		
	cost/student	PK 10 Eff 1				
	Percentage of budget	PK11 Bud				
PK11	given directly to the		3.533	3.133		
	learning activities					

#### **Discussions and Conclusion**

The position of each balanced scorecard perspective performance of the Open University academic services can be depicted in the following Radar Diagram, attributed to Grigoroudis, Orfanoudaki, & Zopounidis (2012).

**Figure 2.** Performance Radar Diagram of the Open University Academic Services with Balanced Scorecard Perspective





The Radar Diagram of UT service performance demonstrates the need for greater attention from UT leaders in customer perspectives. Grigoroudis, Orfanoudaki, & Zopounidis (2012), explained in their research findings that the low customer perspective may be due to the organisation not making the customer the most important strategic goal. Deeper analysis is needed to examine whether learning and growth is really intended for the benefit of the customer.

The direction of learning and growth perspective to the customer indicates that overall growth and learning at UT is aimed at increasing customer satisfaction. This analysis is in line with a Nayeri, M.D, Mashhadi, M.M (2008) study, which shows that learning and growth and customer perspective are more important than internal process and financial perspective. The position of customer perspective in the top position indicates that learning and growth, internal process and financial perspective are intended to support service efforts provided to customers (Niven, 2008). The results of this study also showed that one of the factors that require attention by the organisation in providing services to customers, especially in the field of education, is communication and promotion. Communication and Promotion will be able to equate the perception between educational institutions and customers (students and stakeholders) regarding the process of education and the output that will be obtained.



Analysis using the Importance Performance Analysis (IPA) and Customer Satisfaction Index indicates that the performance of the Open University academic services is in a very healthy condition, within category A, with the overall performance score of 74.11 (Rangkuti, 2011). Based on the results of this research, the conclusion can be stated as follows: (1) The Customer Perspective Performance Index of the Open University academic services is 67.54%, which shows that the consumers are satisfied with the Open University academic services; (2) The Financial Perspective of the Open University academic services is 75.44%. This means that the respondents are very satisfied with the financial performance of the academic services; (3) The Internal Business Process Perspective Index of the Open University academic services is at 78.32% or very satisfying. This means that the Open University has been able to manage the human resources within the organisation to provide satisfying academic services; (4) The Learning and Growth Perspective Index of the Open University academic services is at 76,61% (very satisfying); and (5) The overall performance of the Open University academic services signifies a very healthy condition, which is in category A and with the overall performance score of 74.11%.

The implication of this research may help the Open University evaluate to what extent the translation of the Open University Vision, Mission, and Goals that have been poured into the Strategic and Operational Plan has been achieved. Furthermore, this research could be used to improve the performance of the academic services that have not yet been able to reach their intended target, as stated within the Open University Strategic Plan, Vision and Mission.

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#### **Appendix**

#### Performance Level Achievement from Customer Perspective

Com	iponent eria	Measurement	Significanc y Leve 1	Perfor- mance	n U	ed erforma ce in UT annual deport 2014
Usef	fulness to the Customer					-
P1	Study time completion	ST 50% students finished their study on time	3.03	2.97		
P2	Improving the quality of graduates	P2 IQ 1 60% graduates with an average minimum GPA 2,50	3.19	2.95		63%
12		P2 IQ 2 Courses graduation level reached an average of 88%	3.19	2.93		94%
Р3	Number of registered students in every study program	P3 NR 1 370 new and old students registered and re-registered each semester	3.00	2.75		91.14
		P3 NR 2 Having 300 PPB participants				168%
P4	Total number of students in every study program	P4 TN 1 There is a minimum 5% increase in the number of active students that registered in every study program P4 TN 2 60% students re- registered	3.00	2.72		
P5	Geographical area balance	P5 GA1 balanced number of students from every province in Indonesia  P5 GA2 A balanced number of students from the western part of Indonesia, the middle part of Indonesia, and the eastern part of Indonesia  P5 GA3 A balanced number of students from urban areas and from small towns and rural areas	2.75	2.81		



Com Crite	iponent eria	Measurement	Significanc y Leve 1	Performance	nc U' Aı	erforma e in
D6	Study program  accreditation	P6 Pac Accreditation from BAN-PT for the degree program with minimum accreditation level B	3.46	3.22		71%
P6	accreditation	P7 Ur Renewal of	3.40	3.22		/1%
		international quality certification from				1000/
P7	University rankings	ICDE	3.30	3.11		100%
P8	ISO 9000 Certification	P8 ISO	3.16	3.22		75%
	of the services offered	<b>P9 Price1</b> The nominal fee	1	ı	1	1
P9	The price of tuition for one credit and the average cost for one student in one year	that must be paid by the students for every credit is comparatively lower than other Colleges  P9 Price2 The nominal fee that must be paid by the bachelor (S1) students every year with the average 22 credits in one semester is no more than Rp2,900,000  P9 Price3 The average price of study materials is Rp 60,000	2.97	2.97		



#### Performance Achievement from Internal Business Process Perspective

Compo		Measurement Measurement	Significancy Level	Performan ce	nc U' Aı	erforma e in
Faculty	Developments					
PPP1	Quality improve ment of the	PPP1 Q1 Research is conducted with quality in accordance to the Research Master Plan (RIP) target by 75%	3.19	3.00		75%
	lecturer's s	of lecturers  PPP1 Q2 Conducted 250/300 research titles			76%	112
	c research	PPP1 Q3 Publish at least 35 % of all conducted research in national scientific journals			63%	
		PPP1 Q4 Publish at least 10 % of all conducted research in scientific journals, including international scientific journals.			20%	910
		PPP1 Q5 Disseminate at least 65% of all conducted research in either national or international scientific meetings			146%	232
PPP2	Scientific publicati on ratio of the	PPP2 SP1 Publish at least 35 % of all conducted research in national scientific journals	3.11	2.84	63%	
	lecturer in each year	PPP2 SP2 Publish at least 10 % of all conducted research in scientific journals, including international scientific journals.			20%	910
		PPP2 SP3 Disseminate at least 65% of all conducted research in either national or international scientific meetings			146%	232
PPP3	Quality improve ment of	PPP3 QIS1 Organize at least 1 (one) program of community service	3.03	2.92		



Compor C	nent Criteria	Measurement	Significancy Level	Performan ce	nc UT Ar	rforma e in
	the commun ity services	PPP3 QIS2 Organize community empowerment programs in at least 16 (sixteen) target areas, including areas covered by UPBJJ-UT			200%	218,
		PPP3 QIS3 Organize at least 1  (one) program of  community services on a  national scalel			150%	300
		PPP3 QIS4 Organize MOOCS (one for each faculty) and PPs for each semester				260
The Qua	ality of the Suppor	ting Facility		<u>I</u>	<u>I</u>	1
	Improve and	<b>PPP4 IP1</b> Providing registration				
PPP4	solidify partners	service to at least 150,000 non-student teachers and 400,000 student teachers	3.03	2.89	78%	
	hip networki ng with third parties	PPP4 IP2 Having partnership with at least 75% of provincial and district/city governments, 15 government agencies, 30 educational institutions, and 10 non-government organizations			0%	
		PPP4 IP3 Providing internet access points for students through partnership with internet access providers, which is owned by private sector or community in at least 50% of districts/cities			0%	
	Continuous partners hips that support academi c operatio	PPP4 IP4 Providing mobile registration services (traveling the area), especially to Pendas students in all regional office  PPP4 IP5 Offering scholarship			30%	130



Component Criteria	Measurement	Significancy Level	Performan ce	Achieved Perform nce in UT Annual Report 2013 201	
nal and adminis rative	or relieving study costs to t at least 5% of new students				
needs	PPP4 IP6 Establishing new partnerships with 20 government/private institutions at the national and international level				270
	PPP4 IP7 Partnering with IKA- UT on improving services, recruiting, and providing scholarships for students				80%
	PPP4 IP8 Partnering with the local government on socializing, recruiting, operating services, and providing scholarship to the students				100
	PPP4 IP9 Possessing TIK based co-management system that is integrated with SRS application				90%
PPP5 Improving reputation of the institution by	regarding the important	3.19	3.16	100%	
creating attractive e website	PPP5 IR2 Acknowledgement from society that UT is able to utilize the latest			75%	
represe ative regiona office	network to actively help in increasing funds for UT from various resources			<10%	
building and acknow edgement of the	a university that is able to attend to citizens with			100%	



Compo	Criteria	Measurement	Significancy Level	Performan ce	nc U] Ar	rforma e in
	academi	students with disability				
	С .	living overseas				
	services	<b>PPP5 IR5</b> Providing the result				60%
	from the	of contact centre trial				
	educatio	<b>PPP5 IR6</b> User friendly website				70%
	n	is available				1
	commun	PPP5 IR7 Socialization and				
	ity	promotion programs and				100
		activities are available				100
		through various media				
		and methods to reach all				
		layers of society				
		PPP5 IR8 Public Relations				
		Team is available in every				100
		unit to convey the excellence of UT to the				100
		public and to initiate				
2.2 II	D	partnerships				
	nan Resources Qua	•	1	1	1	1
PPP6	Always pushing	PPP6 HR1 80% of the lecturers				
	the	have academic Magister				
	human	qualification and 90% of	3.16	2.89	61.67%	
	resources	the lecturers have				06.6
	of UT to	academic Doctor				96.6
	study	qualification PPP6 HR 2 80% of the				
	independ ently at					100
	the	education personnel are competent in their				100
	individua	respective duties				
	l level,	PPP6 HR3 61% of the lecturer				
	group	has been certified				
	level, or	nas seen certified				
	organizat					
	ion level					
	until					100
	everyone					
	becomes					
	very					
	proficien					
	t in their					
		1	1	i .		



Component Criteria		Measurement	Significancy Level	Performan ce	nce UT An	forma e in
	work					
PPP7	Development of the organizat ion culture that is oriented in performa nce quality	PPP7 OC1 Possessing the development model of the organization culture that is oriented in performance quality	3.32	3.11		100
PPP8	Development of the innovativ e cultural principle of the organizat ion	PPP8 IC1 Possessing the development model of the innovative cultural principle of the organization	3.19	2.97		100
PPP9	Development of integrate d quality assuranc e system that comply with the	PPP9 DI1 Possessing quality assurance system for the management of PTJJ and academic products that has high quality, keep up to the national, regional, and/or international quality	3.26	3.17		
	standard	PPP9 D12 Every unit possesses one internal Auditor to monitor the implementation of Central Unit and regional office QA			96%	
		PPP9 DI 3 Quality acknowledgement from external parties to the field of academic management and long- distance learning management				75%



					Achieved	1
						rforma
						e in
Component		Measurement	Significancy	Performan	U	
C	Criteria	Wiedsdroment	Level	ce		nual
				Repo		
					2013	2014
		PPP9 DI 4 Obtaining BLU AA				100
		performance ratings				
		<b>PPP9 DI 5</b> An integrated unit				
		performance appraisal				
		system design is available				
		with ICT-based employee				
		performance appraisal				NA
	Quality	<b>PPP10 QA</b> Applying integrated	3.11	3.08		50%
	Assuranc	quality assurance system				
PPP1	e System	that conforms to SPM-PT				
0	through	standard and to the				
Ĭ	Human	individual and unit				
	Resource	performance evaluation				
	s audit	system				
3.4 The	Use, Development	t, and Application of Technology				
	Ratio	<b>PPP11 RC</b> The ratio between				
	Comput	the number of computers				
PPP11	er/Staff	with the number of staff	3.19	3.24		
		and lecturers is at least				
		1:3				
	Ratio	PPP12 RCL				
PPP12	Comput		3.17	3.22		
11112	er/Lectu		3.17	3.22		
	rer					
	Sufficiency of	<b>PPP13 FEq</b> Possessing UPBJJ-				
	the	UT office buildings that is				
	facility'	equipped with				
	S	standardized facilities in				
	equipm	90% of UPBJJ-UT				
	ent to	locations				
	support					
DDD12	the		2.22	2.21		100
PPP13	long-		3.22	3.31		
	distance					
	learning					
	process					
	in the					
	central					
	UT and					
	in					
	regional					



Component Criteria		Measurement	Significancy Level	Performan ce	nce UT An	forma e in
	office					
The Qua	ality of the Support	ting Facility				
PPP13	Sufficiency of the facility's s equipme nt to support the long-distance learning process in the central UT and in regional office	PPP13 FEq RPossessing UPBJJ-UT office buildings that is equipped with standardized facilities in 90% of UPBJJ-UT locations	3.22	3.31		100



#### Performance Achievement from Learning and Growth Perspective

					Achieved	
			Significancy		Performanc	
Com	ponent			Performan	e in UT	
Crite	=	Measurement		ce	Annual	
					Re	oort
					2013	2014
1. Tł	ne Open University Per	formance from Customer Perspe	ctive		l.	
	Jsefulness to the custon					
	Study time	P1 ST 50% students finished				
P1	completion	their study on time	3.03	2.97		
	Graduates quality	P2 GQ1 60% graduates with				
	improvement	an average minimum				63%
	mprovement	GPA 2,50				0370
P2		P2 GQ2 Courses graduation	3.19	2.95		
		level reached an				94%
		average of 88%				9 <del>4</del> /0
	Number of	<b>P3</b> NR 1 370 new and old				
		students registered and				91,14
	registered students in	re-registered each				91,14
P3		•	3.00	2.75		70
	every study	semester				
	program	P3 NR 2 Having 300 PPB				168%
	T 4 1 1 C	participants				
	Total number of	P4 TNS 1 There is a				
	students in	minimum 5% increase		2.72		
	every study	in the number of				
P4	program	active students that	3.00			
		registered in every				
		study program				
		P4 TNS 2 60% students re-				
	~	registered				
P5	Geographical area	P5 GA 1 A balanced number				
	balance	of students from every				
		province in Indonesia				
		P5 GA 2 A balanced number				
		of students from the				
		western part of				
		Indonesia, the middle				
		part of Indonesia, and	2.75	2.81		
		the eastern part of				
		Indonesia				
		P5 GA 3 A balanced number				
		of students from urban				
		areas and students				
		from small towns and				
		rural areas.				
1.2 (	Quality of the services of	offered				



Com Crite	ponent ria	Measurement	Significancy Level	Performan ce	e An:	formanc in UT nual port 2014
Р6	P6 Study program accreditation	P6 Sac Accreditation from BAN-PT for the degree program with minimum accreditation level B	3.46	3.22		71%
P7	P7 University rankings	P7 UR Renewal international quality certification from ICDE	3.30	3.11		100%
P8	P8 ISO 9000 Certification	P8 ISO	3.16	3.22		75%
1.3 (	Cost of the services offe	red			•	
P9	The price of tuition for one credit and the average cost for one student in one year	P9 Price 1 The nominal fee that must be paid by the students for every credit is comparatively lower than other Colleges  P9 Price 2 The nominal fee that must be paid by the bachelor (S1) students every year with the average 22 credits in one semester is no more than Rp2,900,000  P9 Price 1 The average price of study materials is Rp 60.000	2.97	2.97		



	nent Criteria	Measurement	Significancy Level	Performan ce	e An	rformanc in UT inual port 2014
4.1 Fund	ling Source					
PK1	Growth/increase of the amount of funds compared to the previous year	PK 1 GI There is an increase in funding of at least 2% compared to the previous year	3.267	3.200		90%
PK2	Financing from donors for the developme nt of new learning services		2.933	2.733		
PK3	Total increase in funding		2.933	3.067		
	Incomes from Academic activities					
PK4	The amount of funding received from research funds		2.750	2.400		
PK5	The amount of funding received from other activities related to either academic or non-academic services		2.933	2.533		100%
PK6	The increase in income from the students in		3.267	3.200		



Component Criteria		Measurement	Significancy Level	Performan ce	e An	rformanc in UT nual port 2014
	the form of tuition fees and other kinds of					
	funding					
4.2 Fina	ncial management					
PK7	Available budgets	PK 7 AB 1 There is no				
	can fund all	budget deficit				
	financial	<b>PK 7 AB 2</b> At least 75% of				
	requirement	budget utilization				
	s of the	each year	3.400	3.467		
	learning services					
PK8	The amount of	PK 8 Cost Each allocated				
1 Ko	costs of one	budget for one unit				
	activity unit	of activity can cover				
	don't ity diffit	100% of the cost for				
		the intended activity	3.267	3.200		
PK9	The increasing	<b>PK9 Inc</b> Stud There is an				
	amount of	increase in income				
	funding	of at least 2% in				
	from the	tuition fees				
	students		2.933	3.067		
PK10	Efficiency of	<b>PK10 Eff</b> 1At least 40% of				
	teaching	the costs paid by the				
	cost/student	students are returned				
		in the form of				
		academic services.	3.133	3.000		
		<b>PK10 Eff 2</b> At least 30% of				
		the costs paid by the				
		students are used to finance learning				
		finance learning activities (example:				
		tutorial services)				
	Percentage of	<b>PK11 Bud</b> The ratio				
	budget	between the services				
DIVI	given	given is equal with				
PK11	directly to	the cost paid by the				
	the learning	students				
	activities		3.533	3.133		