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Optimization of Student Loyalty through Rewards and Students' Satisfaction as Intervening Variables

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Abstract

STIE Muhammadiyah Asahan is a private university under the supervision of Regional 1 Education Service Institution (LL Dikti Wilayah 1). This study aims to determine the Optimization of Student Loyalty through Rewards and Students' Satisfaction as Intervening Variables. The research approach used in this research is quantitative. Data obtained by distributing questionnaires with a Likert scale. The questionnaire is arranged based on indicators of reward, satisfaction and loyalty. The target population in this study are 71 students for the 2017-2018 academic year. The sampling technique uses saturated samples. So that 71 respondents are selected to be the sample. Data analysis uses path analysis to determine the direct and indirect effect of the reward variable on student loyalty through student satisfaction. The results of the research that can be drawn 1) Rewards have a significant effect on student satisfaction at STIE Muhammadiyah Asahan. 2) Reward has no effect on student loyalty at STIE Muhammadiyah Asahan. 3) Student satisfaction has a significant effect on student loyalty at STIE Muhammadiyah Asahan. 4) Reward has a significant effect on student loyalty through student satisfaction at STIE Muhammadiyah Asahan.

Keywords

student loyalty; intervening variables; rewards and students' satisfaction

Montest



I. Introduction

STIE Muhammadiyah Asahan is a private university under the supervision of Regional 1 Education Service Institution (LL Dikti Wilayah 1). So far, the main financial support for campus operational expenses is from students' fund. To increase the number of students, University involves active students in marketing. Here is the data on new student admissions in the last 3 years:

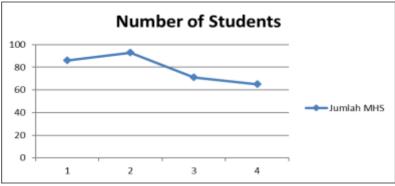


Figure 1. The Data of New Students Admission

Based on the seeing the existing phenomena, especially in giving rewards, it cannot be separated from the sense of satisfaction of the students at STIE Muhammadiyah Asahan. Because this feeling of satisfaction will have an impact on student loyalty to join the member get member program (Purwati, 2019). It is the reason that this research is very necessary specifically for management in evaluating the activities of the member get member in increasing the number of prospective students at STIE Muhammadiyah Asahan.

Figure above, the trend of student acceptance is decreasing. If it continues, it gives a risk, especially in the ability to finance operating expenses. There are some efforts to increase the number of new students is always executed to be able to survive in the midst of competition with other universities. The strategy of member get member was introduced in 2017 to students for the first time by giving a reward of Rp. 750,000 to students who managed to invite new students to study at STIE Muhammadiyah Asahan.

In 2018 the management made a different policy where a reward becomes IDR 350,000 plus giving free travel tickets abroad (Singapore-Malaysia) for students who are able to invite at least 7 students to study at STIE Muhammadiyah Asahan. Furthermore, in 2019 the management changed the reward provisions to IDR 500,000 for students who can invite new students to study at STIE Muhammadiyah Asahan.

II. Review of Literature

2.1 Student Loyalty

Students in private universities are indirectly consumers who have to be served well. One proof of student loyalty to their alma mater is by consistently to involve in program of member get member, to bring in other people to study at the same campus (Keller, 2012). Strong loyalty tends to make a student feel proud of the campus he has chosen. In addition, students will especially recommend to their relatives to study at the same campus (Amelia, 2018). Satisfied students are a manifestation of loyalty to higher education (Rinawati, 2016). As a student you can have a hidden sense of loyalty. This does not mean that students do not want to recommend friends or relatives to study at the same college, but at this time no friends or relatives can be invited to study on the grounds that they do not meet the need to study for college and so on (Griffin, 2010).

2.2 Students Satisfaction

Students want everything they expect from higher education to be realized. For any higher education institutions that continue to make improvements to make minimalize the gap between the expectations of students with existing services, in this situation, complaints can be avoided (Syakur, 2018). Learning was then developed by Keller into four components. The four components are attention, relevance, confidence and satisfaction (Nurjanah *et al*, 2020). Satisfied students will have good comfort during the lecturing process (Adlan, 2017). The expectations to the students are an increase in knowledge and skills, the opportunity to work at bona fide companies, the involvement in foreign student meetings, increase in English and so on (Harjanto, 2020). So that the evaluation of the services carried out by staff and lecturers to students is collected after final semester exam to provide feedback in the next semester (Iriyadi, 2020).

2.3 Reward

The efforts to involve students in the higher education competition era is chosen because of cost efficiency in the marketing department (Fatricia, 2015). The students are directly involved in the new student admission program by providing rewards if they succeed in bringing new students to study at higher education (Amelia, 2018). The award varies from financial and non-financial incentives (Noviandari, 2018). The students have the choices. As a leader, of course, he will optimize limited resources in the success of the new student admissions program (Yani, 2020).

2.4 Theoretical Framework

Higher education institutions rely fully on donations of education funds have to certainly increased the number of new students which is so important for them. It is not uncommon for new student admissions program to be successful to involve all unseparated parties such as staff, lecturers and students. The reward is expected to be able to encourage especially students to participate in member get member activities.

Like a consumer, students also hope to be satisfied to have education activities in higher education. Being satisfied or not become a classic problem for all universities. When the students are satisfied it is expected to reduce the level of students' complaints. So that student loyalty in helping management in increasing the number of new students can be carried out well.

Previous research studies stated that giving rewards to students for loyalty has a significant effect (Nahar, 2018)(Kusumawidjaya, 2020)(Anggraini, 2020). However, not all students want to be involved in the marketing activities as expected by leaders in universities or foundations. Satisfaction should be part of existing services. Satisfaction factor will be taken into account by students in participating in new student admission activities (Torii, 2019)(Priyono, 2018), but not always satisfaction can increase student loyalty (Ismanova, 2019).

To get a clear direction for this research, the authors formulate a theoretical framework as follows:

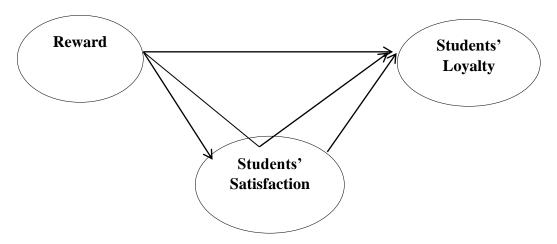


Figure 2. Theoretical Framework

2.5 Hypothesis

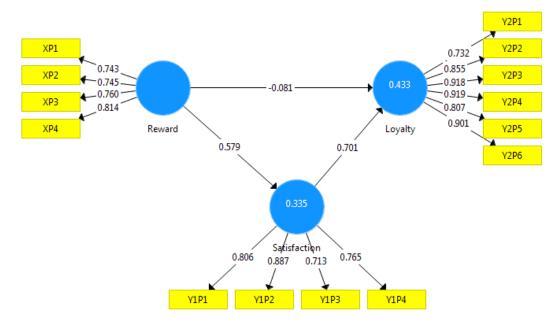
The research hypothesis are as follows:

- H1: Reward has a significant effect on student satisfaction at STIE Muhammadiyah Asahan
- H2: Reward has a significant effect on student loyalty at STIE Muhammadiyah Asahan
- H3: Satisfaction has a significant effect on student loyalty at STIE Muhammadiyah Asahan
- H4: Reward has a significant effect on student loyalty at STIE Muhammadiyah Asahan through student satisfaction

III. Research Methods

The research approach used in this research is quantitative. Data obtained by distributing questionnaires with a Likert scale. The questionnaire is arranged based on indicators of reward, satisfaction and loyalty. The target population in this study are 71 students for the 2017-2018 academic year. The sampling technique uses saturated samples. So that 71 respondents are selected to be the sample. Data analysis uses path analysis to determine the direct and indirect effect of the reward variable on student loyalty through student satisfaction.

IV. Results and Discussion



4.1 Measurement Model Analysis (Outer Model) a. Convergent Validity Test

Figure 3. Result of Outer Model

Based on the picture above, all indicators in the model <0.7. So that it can be declared reliable for measuring the research variables. Then it can be used in the next analysis.

b. Discriminant Validity Test

The results of the determinant validity of the test data in this research are shown in the following table:

	Variable	Item	Loyalty	Satisfaction	Reward		
	Reward	X.P1	0.307	0.447	0.743		
		X.P2	0.199	0.373	0.745		
		X.P3	0.061	0.367	0.760		
		X.P4	0.340	0.535	0.814		

Tabel 1. Discriminant Validity

Satisfaction	Y1.P1	0.383	0.806	0.438
	Y1.P2	0.552	0.887	0.568
	Y1.P3	0.516	0.713	0.460
	Y1.P4	0.604	0.765	0.365
Loyalty	Y2.P1	0.732	0.550	0.332
	Y2.P2	0.855	0.477	0.224
	Y2.P3	0.918	0.629	0.302
	Y2.P4	0.919	0.638	0.319
	Y2.P5	0.807	0.468	0.206
	Y2.P6	0.901	0.569	0.268

From table 1 above, the model has good discriminant validity if each of the loading indicator values of a latent variable is greater than the other correlated variables. The cross-loading value in this research for each indicator is greater than the other latent variables. This shows that each variable has good discriminant validity.

c. Construct Reliability Test

The results of data processing show that:

Table 2. Construct Kendolity					
Variabel	Composite	Average Variance Extracted			
v allabel	Reliability	(AVE)			
Reward	0.850	0.587			
Satisfaction	0.872	0.632			
Loyalty	0.943	0.736			

 Table 2. Construct Reliability

Based on table 2, it shows that the average value is > 0.5. Then the composite reliability value > 0.7. So it can be concluded that the indicators in the study are able to measure well.

4.2 Measurement Model Analysis (Inner Model) a. Coefficient of Determination (R2)

Table 3. R Square						
	R	R Square				
Variabel	Square	Adjusted				
Satisfaction	0.335		0.325			
Loyalty	0.433		0.416			

Based on the data from table 3, it is known that the R Square Adjusted value for student satisfaction variables is 0.325 or 32.5%, while 67.5% as the remaining is influenced by other variables that are not the variables of this study. Then for the student loyalty variable, the value of R Square Adjusted is 0.416 or 41.6%, while 58.4% as the remaining is influenced by other variables not included in this study.

b. Predictive Relevance (Q2)

The value of Q2 has the same meaning as the coefficient of determination (R-Square). The value of Q- large Square (Q2) which is 0 indicates the model has Predictive relevance; but if a value (Q2) is less than 0, it indicates that the model has less predictive relevance; or in other words, when it founds all the values of Q2 are higher, the model can be considered to fit the data better. Consideration of the value of Q2 can be done as follows Q2 = 1-(1-R12)(1-R22)...(1-Rn2)

Q2 = 1-(1-R12)(1-R22)...(11) Q2 = 1-(1-0.325)(1-0.416) Q2 = 1-(0.675) (0.584) Q2 = 1-0.394

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Q2 = 0.606
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Based on these results, the Q2 value is 0.606. So, it can be concluded that all variables in this study which are reward, student satisfaction and student loyalty contribute 60.6 % to authenticity data. Then the remaining 39.4% needs to be developed apart from research variables.

c. Effect Size (F2)

Effect Size (F2) is to determine the benefit of the model. This is to determine whether the predictors of the variable have a weak, moderate, or strong influence at the structural level.

	Satisfaction	Loyalty			
Reward	0.008				
Satisfaction	0.577	0.503			
Loyalty					

Table 4. Effect Tabel 6. Size (F2) test

Based on table 4, it shows that reward has a very weak effect on student satisfaction, then satisfaction has a moderate effect on student loyalty

d. Hypothesis Test

Hypothesis	Original Sample (O)	Average (M)	(STDEV)	t Statistics	P Value	Conclusion
91		~ /	× /			
Reward-Satisfaction	0.579	0.595	0.071	8.104	0.000	Significant
Reward-Loyalty	-0.008	-0.085	0.114	0.711	0.477	Insignificant
Satisfaction-Loyalty	0.701	0.720	0.103	6.781	0.000	Significant
Reward-Satisfaction-						Significant
Loyalty	0.406	0.429	0.087	4.659	0.000	

Table 5. Hypothesis Test

Based on the results of data analysis in table 5, it shows that reward has a significant effect on student satisfaction. The t-statistic value is 8.104 > 1.99 with a significance of 0.000 <0.005. The results of this study are in line with research conducted by (Nasib, 2017) which states that giving rewards in the form of tuition discounts has an impact on increasing student satisfaction. Furthermore, giving the amount of this reward is at least of 20% discount on normal tuition fees (Martin, 2018). The requirements for getting the

discount must be based on the rules that have been established and known by the (head) management and the foundation. Then, based on the descriptive analysis, it shows that the most student prefers IDR 750,000 reward to be paid in cash

The reward in this study has no effect on student loyalty. Where the t-statistic value is 0.711 < 1.99 with a significance of 0.477 > 0.005. The results of this study are not in line with the results of research (Noviandari, 2018) which states that giving reward can increase student loyalty. Thus, giving direct rewards that is done shows it is unable to increase student loyalty in joining the member get member program to increase the number of new students.

Student satisfaction in this study has significant influence to student loyalty. The results of the study are in line with (Ramadhani, 2017) which implies that giving intrinsic rewards can increase student loyalty through student satisfaction. Thus, the management and foundations at higher education institutions must have a strong commitment to give rewards, especially to students who are able to recommend studying at their campus.

V. Conclusion

Based on the results of the research, there are some conclusions that can be drawn 1) Rewards have a significant effect on student satisfaction at STIE Muhammadiyah Asahan. 2) Reward has no effect on student loyalty at STIE Muhammadiyah Asahan. 3) Student satisfaction has a significant effect on student loyalty at STIE Muhammadiyah Asahan.. 4) Reward has a significant effect on student loyalty through student satisfaction at STIE Muhammadiyah Asahan.

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