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To Link this Article: http://dx.doi.org/10.6007/IJARBSS/v8-i10/4783

DOI: 10.6007/IJARBSS/v8-i10/4783

Received: 04 Sept 2018, Revised: 13 Oct 2018, Accepted: 19 Oct 2018

Published Online: 28 October 2018

In-Text Citation: (Sin, Yusof, & Sin, 2018)

To Cite this Article: Sin, M. C., Yusof, B. B., & Sin, K. Y. (2018). International Students' Satisfaction Level towards Service Quality in Academic Aspect and Loyalty to Universiti Teknologi Malaysia. *International Journal of Academic Research in Business and Social Sciences*, 8(10), 838–850.

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Vol. 8, No. 10, 2018, Pg. 838 - 850

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International Students' Satisfaction Level towards Service Quality in Academic Aspect and Loyalty to Universiti Teknologi Malaysia

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ABSTRACT

In recent years, the number of international students has increased greatly in Universiti Teknologi Malaysia (UTM). Despite the international dimension of higher education gaining more importance nowadays, there have been limited studies exploring the satisfaction of the international students. Therefore, the purpose of this study was to identify the international students' satisfaction level towards the service quality in UTM. In addition, this study aimed to investigate the relationship between the students' satisfaction level and their loyalty. A quantitative research methodology was adopted whereby a questionnaire consisting of three parts was utilized: Part A described the demographic data of the samples; Part B (44 items) investigated the international students' satisfaction level which was adopted from the Parasuraman's SERVQUAL model and; Part C (10 items) identified the students' loyalty. A total of 334 international students studying in UTM, Johor Bahru Campus participated in the questionnaire and the results were analyzed using descriptive statistics, Pearson correlation, and multiple regression analysis. The findings showed that international students were not satisfied with the service quality provided in UTM. The expectation score was greater than the perception score in five dimensions of SERVQUAL model, namely tangibles, reliability, responsiveness, assurance, and empathy. Furthermore, multiple regression analysis results showed that responsiveness, assurance, and empathy were the three dimensions which had significant relationship with the students' loyalty. In conclusion, the findings of this study suggested that the administrators of UTM should improve the service quality in UTM to increase the students' satisfaction.

Keywords: Students' satisfaction, Students' loyalty, SERVQUAL, Service quality, Academic aspect

INTRODUCTION

In line with the 'Ninth Malaysia Plan', the Malaysian government has aspired to become a regional higher education centre since 2006 to attract more foreign students (Down, 2009). The Ministry of Higher Education (MoHE) in Malaysia has targeted to attract 200,000 international students by the year 2020 (MoHE 2007). As a result, the population of foreign students has increased from 580 in 1995 to 93,000 students in 2010, causing Malaysia to be ranked 11th in the same year based on the population of students (The Edge 2011).

As with all other service industries, service quality is the key to success for higher education sector (Rezaei, Matin, Hajizadeh, Soroush, Mohammadi, Babakhany and Jamshidi 2017). According to Parasuraman, Zeithhalm, and Berry (1988), the service of an institution is judged with different dimensions and its quality could determine how satisfied a customer is (Galeeva 2016). The customers would naturally feel more satisfied if the service quality they perceive is higher. Furthermore, based on the research conducted by Dehghan, Dugger, Dobrzykowski and Balazs (2014), the expectations of the customers connect with their perception of the service quality, and thus the customers' loyalty could be influenced by the quality of a service.

This study was conducted at UTM, Johor Bahru, which is one of the research universities in Malaysia. According to the MoHE in Malaysia (2013), the number of international students studying in UTM has been increasing over the years. In 2015, the total number of undergraduate, postgraduate, and PhD students in UTM was 29,881. Among these students, 5175 (17.32%) were international students who came from 65 different countries including Iran, Nigeria, Pakistan, Yamen, and Indonesia (ISC UTM 2015).

It is essential to attract more international students as their existence could provide numerous benefits to both the country and the institutions. Among which, international students contribute greatly to the nation's economy. For instance, the tuition fees of the international students which are generally higher than that of the local students could be a considerable profit to the institutions (Facts and Figures, UTM's website 2015). Furthermore, if the international students further pursue their study at the higher education institutions, they would continue to become one of the important sources of income to the universities. Therefore, it is crucial to explore the learning experience and satisfaction of the international students as their satisfaction is directly linked to their loyalty to the institutions (Bolliger & Wasilik 2009). Besides financial benefits, skills and ability in their study area could be delivered into the institutions and enhance the learning experience (NUS, 2016).

Students' loyalty is defined as the ability of an educational organization to attract new students to study in the university and retain the current students (Galeeva 2016). Often, the institutions compete to retain their current students rather than attracting and enrolling the new students. According to Chong and Ahmed (2012), it is because familiar customers are more efficient to deal with and it is five-time costlier to acquire a new customer than to retain a current customer. Thus, higher education institutions should determine the variables influencing the students' loyalty and develop strategies to retain more of their existing students (Dehghan et al. 2014).

A literature search in the UTM library revealed limited studies which examined the international students' satisfaction and the service quality factors influencing their satisfaction level at the university level. Most of the existing studies investigated the customers' satisfaction level in other services, such as hostel, library, and healthcare. Therefore, this research was conducted to

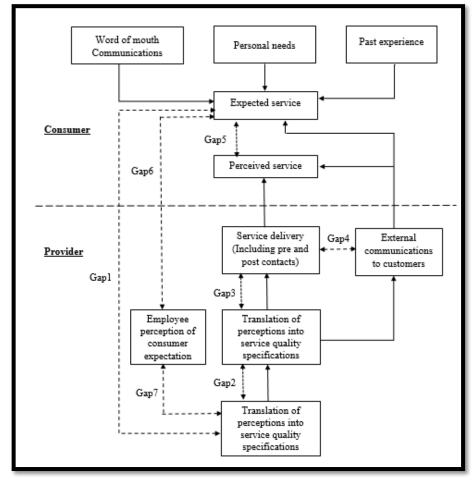
determine the satisfaction level of the international students towards the service quality of UTM in relation to the academic aspects. Furthermore, the relationship between the students' satisfaction level and their loyalty was explored.

In essence, evaluating the satisfaction of the UTM international students towards the quality of services provided by the university would allow the university to improve their service quality accordingly. International students are an important source of income to the university and their presence should be retained. By enhancing the service quality, the retention of the international students studying in UTM could be increased. More importantly, this research could potentially increase the number of international students in UTM by investigating the relationship between the students' satisfaction and their loyalty. In addition, this research could contribute to the existing literature and serve as a reference for future research.

Service Quality

Service quality is linked to the customers' expectations and their perception of the service offered by a company (Wong, Tunku and Rahman 2012). It is a result of the customers' comparison of their expectation of a service with the real perception of the service or product consumed by them. Thus, there is a need to compare these two factors to measure the customers' satisfaction. A service or product is considered excellent if the perceptions are higher than the expectations. However, if the expectations are equal to the perceptions, it is considered good. When the perceptions do not meet the expectations, it is considered a poor service.

Figure 1 Model of Service Quality Gaps (Parasuraman et al. 1985; Curry 1999; Luk and Layton 2002)



According to Brown and Bond (1995), the model of service quality gaps, as shown in Figure 1, identifies seven gaps relating to the managerial perceptions of service quality and the tasks associated with the service delivery to the customers. Gap 1, Gap 2, Gap 3, Gap 4, Gap 6, and Gap 7 are identified as the functions of the way in which a service is delivered, whereas Gap 5 pertains to the customer and it is the true measure of the service quality.

Parasuraman SERVQUAL (1991)

SERVQUAL is an instrument which was developed by Parasuraman, Zeithaml, and Berry in 1988 to measure the service quality. This instrument consists of ten dimensions of service quality which include tangibles, responsiveness, reliability, competency, communication, credibility, courtesy, security, access, and understanding. These ten dimensions could measure the service quality based on the inputs from the focus group. Furthermore, SERVQUAL is used widely to measure the service quality of different organizations, such as hospital, libraries, and bank services (Narang 2012). As displayed in Table 1, the ten dimensions are then shortlisted into five dimensions, which is known as the RATER. These five dimensions are the basis of the higher education quality dimensions to evaluate the customers' expectations and perceptions of the service quality.

Table 1 Five SERVQUAL Dimensions Shortlisted by Parasuraman and Berry (1991)

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Dimensions	Explanation
Reliability	The ability of the staff to provide service dependably, accurately, and
	consistently.
Assurance	The staff own knowledge and skills where their service and product are
	trustable.
Tangibles	The physical facilities and equipment of the company and the physical
	appearance of the staff.
Empathy	The staff could provide caring and individualized attention to specified
	customers based on their special needs.
Responsiveness	The willingness of the staff to provide prompt service and their readiness to
	help the customers.

Students' Satisfaction

Satisfaction is defined as a state of perception inside the customers after experiencing a service or using a product that fulfils their expectation (Ivashkova and Lopatinskaya 2013). Elliot et al. (2001) defined students' satisfaction as a short-term attitude that reflects the result of having experience with the education service they have received in the institutions. According to Ilias, Hasan, Rahman, and Yasoa (2008), the students' satisfaction could be affected by the internal and the external factors. In the context of this research, internal factors refer to the teaching staff, learning environment, support facilities, and equipment, whereas external factors refer to the financial and transportation services.

Students' Loyalty

According to Novatorov and Novitskaya (2012), customers' loyalty could be defined as the intention of the customer to rebuy or reuse the same product or service. Loyalty counts in a process involving the customers' perception, mental, and behaviour (Dehghan et al. 2014). Customers who show loyalty would repurchase a specific brand or give support in a financial or non-financial way to the same product. Similarly, the loyal students would recommend the institution to others and the former students would return to the previous higher education institutions to pursue further study (Marzo-Navarro et al. 2005). To determine the students' loyalty, a model known as the RQSL model was developed by Hennig-Thurau and Klee (1997). This model combines the main elements of the Tinto model (1975, 1993) and the relationship quality model. In this model, students' loyalty is determined by three complex constructs which are the students' perception of the quality of the teaching activities, their trust to the institution, and their commitment to the activities organized by the institution.

METHODOLOGY

This research was a quantitative study whereby a non-experimental survey was conducted from September 2015 to September 2016 to empirically validate the students' satisfaction towards the academic aspects at UTM, Johor Bahru. A descriptive analysis was conducted to determine the

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relationship between the independent variable and the dependent variable as portrayed in the research framework (see Figure 2) and to assess the validity of the hypothesis.

The hypothesis of this research are stated as below:

 H_1 : There are no significant differences in the satisfaction level for international students in Tangibles with loyalty.

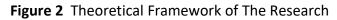
H₂ : There are no significant differences in the satisfaction level for international students in Reliability with loyalty.

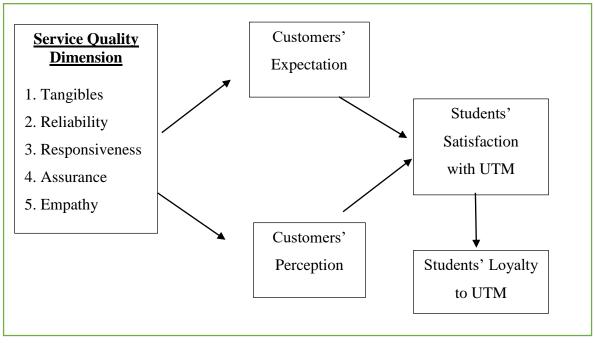
H₃ : There are no significant differences in the satisfaction level for international students in Responsiveness with loyalty.

H₄ : There are no significant differences in the satisfaction level for international students in Assurance with loyalty.

H₅ : There are no significant differences in the satisfaction level for international students in Empathy with loyalty.

In this study, the independent variable was the satisfaction level of the international students towards the service quality in the academic aspects of UTM, while the dependent variable was the students' loyalty.





In this study, random sampling technique was used whereby 334 international students were selected as the samples of this study. The instrument was a questionnaire which consisted of three parts with a total of 54 questions.

The first part, Part A contained three items which gathered the respondents' gender and country of origins. Part B consisted of two main SERVQUAL questions where there were 22 items (E1 to E22) exploring the respondents' expectation of the ideal academic service provided in UTM; and another 22 statements (P1 to P22) which evaluated the students' perceptions of the academic services received by them in UTM. These 22 items were adopted from the SERVQUAL instrument (Parasuraman et. al. 1991) and some adjustments were made to measure the academic services in UTM (independent variables). A total of 44 items for the independent variables were used to evaluate the dependent factor, (the students' loyalty) which was measured in Part C via 10 items. The details of each construct were delineated in Table 2.

The questionnaire was ranked using the Likert scale format with the following answers: 1 *strongly disagree*, 2 *disagree*, 3 *neither*, 4 *agree*, and 5 *strongly agree*. The Likert scale was used to provide an idea of how the academic services in UTM satisfy the international students by the performance of the service. The items to measure the dependent variable in this study was based on the students' loyalty theory by Øyvind Helgesen and Erik Nesset (2007). There were three variables to measure the students' loyalty, namely recommend (positive word of mouth), repeat, and return. In Table 2, the constructs of the questionnaire and the reliability value of the instrument is presented.

CONSTRUCT	ITEM NUMBER	TOTAL	CRONBACH'S ALPHA
Tangibles	E1 P1 E2 P2 E3 P3 E4 P4	8	0.835
Reliability	E5 P5 E6 P6 E7 P7 E8 P8 E9 P9	10	0.872
Responsiveness	E10 P10 E11 P11 E12 P12 E13 P13	8	0.830
Assurance	E14 P14 E15 P15 E16 P16 E17 P17	8	0.821
Empathy	E18 P18 E19 P19 E20 P20 E21 P21 E22 P22	10	0.765
Loyalty	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	10	0.935
	TOTAL	54	0.953

Table 2: Constructs of the questionnaire and reliability value of the instrument

The data obtained from the survey were computed and analyzed using the Statistical Package for Social Science (SPSS) version 18.0. The demographic information, such as the gender and the countries of origin were analyzed using frequency and percentage. In addition, the correlation analysis was conducted to identify the relationship between the five dimensions of SERVQUAL model and multiple regression analysis was used to identify the relationship between the international students' satisfaction level and their loyalty.

RESULTS AND DISCUSSION

Table 3 presented the demographic profile of the respondents based on the descriptive analysis.

No	Variables	Frequency	Percent			
1	Gender	·				
	a. Male	228	68.3			
	b. Female	106	31.7			
	Total	334	100.0			
2	Country of Origin					
- - - - - - - - - - - - - - - - - - -	a. Iran	66	19.8			
	b. Indonesia	24	7.2			
	c. Nigeria	78	23.4			
	d. Iraq	26	7.8			
	e. Yemen	41	12.3			
	f. Pakistan	31	9.3			
	g. Sudan	18	5.4			
	h. Oman	10	3.0			
	i. Bangladesh	14	4.2			
	j. Others	26	7.8			
	Total	334	100.0			

Table 3 Summary of the Demographic Profile of the Respondents

As shown in Table 3, among the 334 respondents, 228 (68.3%) were males while 106 (31.7%) were females. In relation to the country of origin, Nigerians constituted the largest number of international students whereby there were 78 (23.4%) of them participating in the study. Furthermore, 66 (19.8%) students from Iran participated in the questionnaire, constituting the second highest number of international students. Meanwhile, 41 respondents (12.3%), 31 respondents (9.3%), and 26 respondents (7.8%) were from Yemen, Pakistan, and Iraq, respectively. Students from 'other countries' shared the same result with that of Iraq. In addition, there were 24 Indonesian students (7.2%) and 18 students from Sudan (5.4%) who participated in the study. In the meantime, 14 students (4.2%) from Bangladesh and 10 students (3.0%) from Oman also completed the questionnaire.

Table 4 presented the results of the descriptive analysis of this study. The table outlined the mean and standard deviation of the study variables which were the dimensions of service quality in UTM (tangibles, reliability, responsiveness, assurance, and empathy) and the students' loyalty.

Variables	Mean	Standard Deviation
Tangibles	3.4431	0.74115
Reliability	3.4042	0.77039
Responsiveness	3.1850	0.78239
Assurance	3.1954	0.74624
Empathy	3.4497	0.67866
Students' loyalty	3.1158	0.88644

Table 4 Summary of Descriptive Value Results

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Based on the results, the mean for tangibles, reliability, responsiveness, assurance, empathy, and students' loyalty was 3.4431, 3.4042, 3.1850, 3.1954, 3.4497, and 3.1158, respectively. The average mean showed that the international students were satisfied with 3 variables of the service quality which were the tangibles, reliability, and empathy. Meanwhile, the international students were only slightly satisfied with the two other dimensions, namely the responsiveness and the assurance. Furthermore, the respondents only 'slightly agreed' with the statements about their loyalty to UTM.

To establish the relationship between at least two continuous variables, the Pearson's correlation was utilized. Table 5 showed the proper layout of the correlation analysis result. **Table 5** *Correlation Analysis Result*

	Tangibles	Reliability	Responsiveness	Assurance	Empathy	Loyalty
Tangibles (IV1)	1					
Reliability (IV2)	.779 ^{**} .000	1				
Responsiveness (IV3)	.508 ^{**} .000	.483 ^{**} .000				
Assurance (IV4)	.491 ^{**} .000	.510 ^{**} .000				
Empathy (IV5)	.530 ^{**} .000				1	
Loyalty (DV)	.382** .000	.331 ^{**} .000		.569 ^{**} .000	.530 ^{**} .000	1

Note: * Correlation is significant at the 0.05 level (2-tailed)

**. Correlation is significant at the 0.01 level (2-tailed)

The first correlation was between tangibles and students' loyalty whereby the r-value was 0.382 or 38.2% at 99% confident interval. In accordance with the rule of thumb by Davis (1997), the finding demonstrated that the relationship between these two variables was moderate but positive. Similarly, the correlation between reliability and students' loyalty was 0.331 which signified a moderate and positive relationship between the two variables. Upon further examination of the results, three dimensions, namely responsiveness, assurance, and empathy portrayed a strong relationship with the students' loyalty with an r-value of 0.583, 0.569, and 0.530, respectively. These findings were consistent with the results reported by Brown, R. M., and Mazzarol, T. W. (2009). Additionally, the correlations between all the five dimensions of SERVQUAL (tangibles, reliability, responsiveness, assurance, and empathy) and the international students' loyalty were significant at 0.01 levels (2-tailed).

Table 6 demonstrated the proper layout of the correlation analysis result. Multiple regression analysis is a multivariate system which employs more than one independent variable to enlighten the variance in the dependent variable. It can be used to measure the extent of the relationship between the independent variables and the dependent variable in which the regression coefficients denote the relative importance of every independent variable in the forecast of the dependent variable.

Serial	Independent Variable	Dependent Variable (International Students' Loyalty)	Significance value (Sig.)	
1	Tangibles	0.121	0.094	
2	Reliability	-0.081	0.257	
3	Responsiveness	0.278**	0.001	
4	Assurance	0.213*	0.011	
5	Empathy	0.147*	0.037	
R ² = 0.381 Adjusted R ² = 0.371 Model Summary F Change= 40.327 Sig. = 0.000 ^b ANOVA ^a				

Table 6 Multiple Regression Analysis Result	Table 6 Multi	ple Rearession	Analvsis	Result
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Note: Significant levels: **p<0.01; *<0.05

As revealed in Table 6, the standard coefficient was 0.121 for tangibles; -0.081 for reliability; 0.278 for responsiveness; 0.213 for assurance; and 0.147 for empathy. R-square, also named as the coefficient of determination, is the scheme of the variance in the dependent variable (international students' loyalty) which could be expected from the independent variables (tangibles, reliability, responsiveness, assurance, and empathy). The adjusted R-square yields a more reliable value to determine the R-square for the population. Based on the results, 38.1% of the variation in the extent of the international students' loyalty can be predicted from the independent variables. On the other hand, 61.9% of the variation in the extent of the international students' loyalty were not described in this regression model. Meanwhile, the adjusted R-square of this study was 0.371.

Furthermore, the analysis revealed that three independent variables, namely responsiveness, assurance, and empathy showed a statistically significant relationship with the extent of the international students' loyalty. The hypotheses were supported because the p-value was less than 0.05 for assurance and empathy, while the p-value was less than 0.01 for responsiveness. The p-values for tangibles and reliability were 0.094 and 0.257, respectively, implying that their relationships with the students' loyalty were insignificant. This finding indicated that responsiveness, assurance, and empathy could be used to reliably predict the students' loyalty.

CONCLUSION

The objectives of this research were to: (i) determine the students' satisfaction towards the service quality in UTM and (ii) evaluate the relationship between the students' satisfaction level and their loyalty to UTM. Based on the results, the international students were not satisfied with the quality of service provided in UTM. Overall, the expectations of the students were greater than their

perceptions in all dimensions of service quality in the SERVQUAL model (tangibles, responsiveness, reliability, empathy, and assurance). In addition, among the five dimensions in SERVQUAL model, only three dimensions (responsiveness, empathy, and assurance) had significant relationships with the students' loyalty.

This study utilized a quantitative approach as the research method. This approach has been frequently used to measure the students' satisfaction and loyalty in numerous studies. Nevertheless, a quantitative study could not capture the sentimental part of the research samples and determine the factors that influence the students' satisfaction and loyalty. Hence, this study proposed future research to adopt a research methodology which combines both quantitative and qualitative approach for data analysis. For example, interview and focus group conversation.

In conclusion, UTM, or for that matter, all higher education institutions should take initiative to improve their service quality to attract and retain more international students. The university administrators should improve the quality of the higher education service based on the dimensions which could affect the students' loyalty. By increasing the students' loyalty, the university could then attract or retain more of their students, be it international or local.

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