

# Students Satisfaction towards the University: Does Service Quality Matters?

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Received: November 7, 2011 Accepted: December 3, 2011 Published: December 10, 2011

doi:10.5296/ije.v3i2.1065 URL: http://dx.doi.org/10.5296/ije.v3i2.1065

## **Abstract**

This study examines the relationship between service quality (SQ) and the level of student's satisfaction (SS) using a field study of 100 undergraduate students in one of the university in Malaysia. The findings of this study reveals that SQ is a vital factor that determines the level of SS. Specifically, the result of this study reveals that the better the SQ provided by the university, the higher the level of SS. Responsiveness, assurance, and empathy are the three dimensions of SQ that is significantly related to the level of SS. The findings of this study have made significant contribution to the body of knowledge in student's satisfaction management in higher education institutions. The findings of this study also made practical implication to management of higher education especially in the area where SQ improvement is needed

**Keywords:** Service quality, Customer satisfaction, University

# 1. Introduction

The importance of both service quality (SQ) and customer satisfaction (CS) has received considerable attention in the recent years (Ibanez, Hartman & Calvo, 2006; Sureshchandar,



Rajendran, & Anantharaman, 2002). Organizations leveraging on SQ capabilities have reported competitive advantage such as increase of retention and loyalty (Ruyter, 1997; Shemwell, Yavas & Bilgin, 1998; Alexandris, Dimitriadis & Markate, 2002). In an era of globalization and stiff competition, organizations began to shift the paradigm of service quality to customer's perspective (Parasuraman, Zeithaml & Berry, 1985). By relying on this paradigm; a customer will judge the quality of service if the service he/she received meets his/her expectations (Gronroos, 1984; Parasuraman et al., 1985, 1988).

Numerous studies had been conducted on service quality (SQ) and customer satisfaction (CS) in the marketing/management field for the past 30 years. Despite this development, limited research has been done in education field particularly in Malaysian context. Few noticeable research on service quality in higher education institutions are those of Hishamuddin, Azleen, Rahida and Mohd Zulkeflee (2008), Nek Kamal, Azman, Zubrina and Salomawati (2009), and Muhammad, Rizwan and Ali (2010). Findings from these studies reported that student's satisfaction towards services provided by the university is crucial determinants of institutional survival and excellence. Nek Kamal et al. (2009) for instance emphasizes that the proper use of dimensions in SQ in providing services will increases the student's perception towards the value of services. For example, the tangibility of facilities within the institution is important in creating the image of excellence of the institutions (Muhammaed, Rizwan & Ali, 2010). This finding echoed in Landrum (2007) whereby SQ found to be an important element that determines the success of an institution.

Therefore, this study intends to look into the service quality (SQ) provided by the public institution of higher education and the level of student satisfaction (SS) in one of the public university in Malaysia. The present study contributes to research on SS and SQ in both knowledge and practical aspect. By testing the existing model of SQ and SS in the local context, the results of this study will further reassure whether the existing relationships established from past researches can be generalize to higher education institution in Malaysia. While majority of the studies have been conducted in western context, little is known about the effects of SQ on SS in eastern culture like Malaysia. Practically; the research contributes to educators and management of higher institution by highlighting the important factors affecting student's satisfaction. This will enable the management of the university to identify the strength and weaknesses in the present service quality offered to students and make necessary improvement to increase student's satisfaction.

# 2. Theoretical Development and Hypotheses

# 2.1 Student Satisfaction

For the past 30 years ending 2011, customer satisfaction (CS) has been an intensively discussed subject in the area of consumer and marketing research. According to Wilkie (1990) and Perkins (1991), there have been more than 1200 articles published in the area of customer satisfaction research. The number of the articles published should be doubled or tripled by now since the topic itself has manage to gain more and more attention from scholars around the world. In this study, the CS referred to student satisfaction (SS) since students are considered as a customer for the higher learning institutions. For this study, customer refers to



university students, hence students satisfaction towards services offered by public institution has become the focus of this research.

McDougall and Levesque (2000) defined customer satisfaction (CS) as "a cognitive or affective reaction that emerges in response to a single or prolonged set of service encounters." Customer satisfaction can be a multi-dimensional construct (Hu, Jay & Thanika, 2009; Bitner and Hubbert, 1994; Price, Arnould & Tierney, 1995; Sureshchandar et.al., 2002) or a one-dimensional construct (Cronin & Taylor, 1992). Regardless of how customer satisfaction is measured, it is proven that a satisfied customers will exhibit loyalty and provide positive word-of-mouth as per reported by Kim, Lee and Yoo (2006). Machleit and Mantel (2001) describe customer satisfaction as the heart of all marketing activities and there is no doubt that customer satisfaction has been identified as one of the most important determinant to customer loyalty.

In the context of higher learning institution, the student satisfactions (SS) play an important role in determining the originality and accuracy of the education system. This is because the higher the level of satisfaction experienced by the student, the better the student's ability to groom their skill development, course knowledge and mentality (Muhammad et al., 2010). Zeithaml (1988) mentioned that the student satisfaction is an evidence to measure how well effective an institution administrates itself as well as its educational system. Rodie and Klein (2000), posited that if an institution possesses essential educational facilities with affective teaching and training staff, the student will most likely be more motivated, loyal and good performers in their academic.

## 2.2 Service Quality

According to Zeithaml and Bitner (2003), service quality (SQ) is defined as a focused evaluation that reflects the customer's perception of specific dimensions of services provided. The particular perception towards the dimensions of services is influenced by several factors which includes the quality of the services received, the quality of the product, the price factor as well as both situational and personal factor (Zeithaml & Bitner, 2003).

The most notable contribution towards the measurement of quality of a given service is by Parasuraman, Zeithaml and Berry (1985). Their Service Quality (SERVQUAL) model which is a multi-item scale developed to assess customer perceptions of service quality in service and retail businesses (Parasuraman et.al., 1988). At least 293 important articles have been written from 1976 to 1995 on service quality and if consider article in which service quality forms a part of the published articles, the number would be more than 4000 articles (Philip & Hazlett, 1997). These numbers clearly shows the importance of service quality and the researcher's attentions to the topic.

The initial SERVQUAL model by Parasuraman (1985) consists of ten dimensions namely:

- i. Reliability: How well does the service being delivered as promised
- ii. Responsiveness: How fast does the response be given to customers
- iii. Competence: How well does the service provider possesses the knowledge and skill



needed to serve the customers

- iv. Access: How convenient does customers are able to access the service provider
- v. Courtesy: How approachable does the staff of the service provider
- vi. Communication: How well does the service provider kept the customers informed
- vii. Credibility: How well does the service provider can be trusted
- viii. Security: How well does the service provider protect the privacy of customers
- ix. Understanding of customer: How well does the service provider make its effort to understand the needs and wants of the customer
- x. Tangible: How well does the service provider equipped with tangible facilities to serve the customer.

Parasuraman and Berry (1991) later condensed the ten dimensions of service quality (SQ) into five dimensions which consist of 22 attributes. The newly condensed five dimensions of SQ are as follows:

- i. Tangibles: The physical facilities, equipment that is needed to provide services
- ii. Reliability: The ability to deliver the desired service dependably, accurately and consistently.
- iii. Responsiveness: The ability to response to customers request on time
- iv. Assurance: The ability to convey trust and confidence to customers toward the services provided
- v. Empathy: The ability to show personal caring and attention to customers.

The SERVQUAL instrument has demonstrated excellent validity and reliability in previous research (Babakus & Boller, 1992; Bolton & Drew, 1991; Cronin & Taylor, 1992). It is applicable to various industries, for example, the adaptation of the instruments in the professional service industries (Freeman & Dart, 1993), health care (Lam, 1997), and tourism (Tribe & Snaith, 1998).

The first few adapters of SERVQUAL measurement are Kettinger and Lee (1994) and Pitt et al. (1995). They adapted the SERVQUAL measurement instrument into the information system (IS) context. Since then, the adaptation of SERVQUAL began to expand in an extensive array of industries. Harrison-Walker (2000) adapted the instrument and made a survey in a saloon industry. The finding of the study indicates that consumers do not clearly differentiate the interaction aspects of reliability, responsiveness, assurance and empathy. This means that consumer in the saloon industry gives a general, overall attitude towards their interaction quality with the hairdressers. Azman, Muhammad Madi and Balakrishnan (2009) adapted the instrument to measure the effects of service quality towards the satisfaction of academic staff in public institution of higher learning. The finding of the study indicate that the dimension of service quality indeed impact the satisfaction of academic staff.



Ravichandran, Mani, Kumar and Prabhakaran (2010) in their study on influence of service quality on customer satisfaction in the context of banking industry found that only the dimension of responsiveness is significantly related to customer satisfaction.

## 2.3 Service Quality and Student's Satisfaction

It is noticeable that service quality (SQ) has always been a critical prerequisite for ensuring the satisfaction of customer in order to maintain a long term relationship with the customer and to sustain customer loyalty (Spreng & Mckoy, 1996). According to Lassar, Manolis and Winsor (2000), it is crucial to understand the antecedents and determinants of customer satisfaction (CS) since it has an extraordinary high monetary value for service organization in a very competitive business environment. This statement is further support by Bitner (1990) as he researched 145 tourists and found that SQ has been an important determinant of CS.

Prior study by Bigne, Moliner and Sanchez (2003) revealed that the overall dimension of service quality (SQ) have a significant relationship with satisfaction at (r = 0.66). A study in the higher education setting by Ham and Hayduk (2003) shows that there is a significant positive correlation between SQ and student satisfaction (SS) with the dimension of reliability (r=0.547) has the strongest relationship with SS followed by empathy and responsiveness (both r's=0.5431), assurance (r=0.492) and tangibility (r=0.423).

A recent research by Hishamuddin et al., (2008) in the Malaysian higher learning institution indicates that there are significant and positive relationships between the dimensions of service quality (SQ) and student satisfaction (SS). The dimension of empathy is strongly correlated with SS (r= 0.640) followed by assurance (r=0.582), tangibility (r=0.568), responsiveness (r=0.556) and reliability (r=0.555). The alpha coefficients for the dimensions of SQ are above 0.75 indicates that the 22 attributes for SQ can be used to measure the SQ in the education industry (Nunally, 1978). This supports the argumentation that with minor modification the instrument can be adapted to any service organizations (Parasuraman et.al., 1985, 1998; Brown, Churchill & Peter, 1993; Joseph & Joseph, 1997; Pariseau & McDaniel, 1997; Oldfield & Baron, 2000; Wisniewski, 2001).

Drawing from the above literature discussion, we propose the following hypotheses:

H<sub>1</sub>: Service quality is related to student satisfaction.

## Specifically:

 $H_1a$ : There is a relationship between the tangible dimension of service quality and student satisfaction.

 $H_1b$ : There is a relationship between the reliability dimension of service quality and student satisfaction.

 $H_1c$ : There is a relationship between the responsiveness dimension of service quality and student satisfaction.

 $H_1d$ : There is a relationship between the empathy dimension of service quality and student satisfaction.



H<sub>1</sub>e: There is a relationship between the assurance dimension of service quality and student satisfaction.

From the above literature discussion and proposed hypothesis, we developed a conceptual framework for this study as shown in Figure 1.

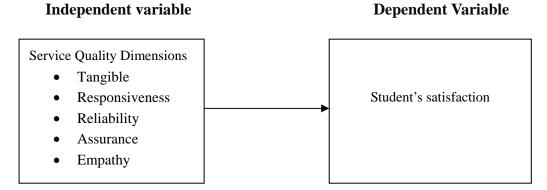


Figure 1. Conceptual framework of effects of Service Quality towards the student's satisfaction

# 3. Methodology

Data were obtained from students using a structured questionnaire through a field survey. Respondents for the study were students who are currently studying in one of the public university in northern region of Malaysia. The students are required to rate their level of satisfaction towards the service quality provided in the area of: i) the academic department, ii) the university sport center, iii) the university residential hall, iv) the transportation services provided by the university and finally, v) the internet services provided by the university. A total of 250 questionnaires were distributed to the respondents using the convenient sampling method. Of these, 100 usable questionnaires received, representing 40% of response rate.

The sample included 27 (27%) male and 73 (73%) female. We studied 4 (4%) participants aged less than 20 years old, 95 (95%) participants aged between 21 to 25 years old and 1 (1%) participant aged between 26 to 30 years old. Out of the 100 participants, 23 (23%) are Malay students, 68 (68%) are Chinese students, 7 (7%) are Indian students and 2 (2%) are student from other races. Majority of the participants in this study are year 3 student (74 students) followed by year 1 student (12 students). The demographic statistic of this study is exhibited in Table 1.



Table 1. Demographic Statistics (N = 100)

Variables	Frequency	Percentage (%)	M	SD
Age				
< 20	4	4.0	1.97	.223
20 - 25	95	95.0		
26 - 30	1	1.0		
Gender				
Male	27	27.0	1.73	.446
Female	73	73.0		
Race				
Malay	23	23.0	1.88	.608
Chinese	68	68.0		
Indian	7	7.0		
Others	2	2.0		
College				
Business	87	87.0	1.23	.617
Law	3	3.0		
Art & Science	9	9.0		
Year of Study				
Year 1	12	12.0	2.76	.754
Year 2	7	7.0		
Year 3	74	74.0		
Year 4 & Above	7	7.0		

## 3.1 Measures

# 3.1.1 Service Quality

Service Quality was measured with the 22-item SERVQUAL instrument developed by Parasuraman et.al. (1991). The 22-item instrument made up of five dimensions with the dimension of tangible consists of 4 questions, reliability (5 questions), responsiveness (4 questions), assurance (4 questions), and empathy (5 questions). Numerous studies also supported similar measurement practice (Nguyen & LeBlanc, 1998; Ruyter, Wetzels, & Bloemer, 1998; Sivadas & Baker-Prewitt, 2000). Respondent were asked to use a 5-point Likert-type scale to indicate the extent to which they agree with the overall level of service quality provided by the university. Response choice alternatives ranged from 1 (strongly disagree) to 7 (strongly agree). The reliability value (Cronbach's alpha) and number of items in each dimension are presented in Table 1. The reliabilities ranged from 0.65 to 0.94 suggesting that the scale could be used with confidence.

#### 3.1.2 Student Satisfaction

Student satisfaction was measured with the 10-item instrument adapted from various sources of literature. (Monroe, 1990; Teboul, 1991; Voss, 1998; Klara, 2001; Belman, 1996; Dulen, 1998; Berry, 1980; Lovelock, 1981; Grove & Fisk, 1983; Grove, Fisk & Bitner, 1992). The



5-point Likert-type scale ranges from 1 (strongly disagree) to 5 (strongly agree) is used to measure the level of agreement toward given statements that represent student satisfaction. The reliability value (Cronbach's alpha) for the 10-item instrument stands at 0.876 as presented in Table 1 suggesting that this self developed instrument could be used with confidence to represent customer satisfaction.

# 4. Results

# 4.1 Descriptive Statistics, Reliability Coefficients and Correlations

The descriptive statistics for all variables are presented in Table 2, along with the correlation matrix. All five dimensions of service quality (SQ) are correlated positively with student satisfaction (SS) (tangible r=.41, reliability r=.69, responsiveness r=.76, empathy r=.77, assurance r=.76, all ps=<.05). The strongest correlation was found between SS and empathy dimension (r=.77, p=<.05) followed by assurance (r=.76, p=<.05), responsiveness (r=.76, p=<.05) and reliability (r=.69, p=<.05). The weakest correlation is with the dimension of tangible (r=.41, p=<.05). The result from correlation test preliminary support the proposed hypothesis that all dimensions of SQ have a relationship with SS.

Table 2. Construct intercorrelations and scale reliability values

Variable	No of Item	Mean	SD	Customer Satisfaction	Tangible	Reliability	Responsiveness	Assurance	Empathy
Customer Satisfaction	10	2.71	.68	(.876)					
Tangible	4	3.02	.69	.414*	(.754)				
Reliability	5	2.46	.77	.689*	.468*	(.896)			
Responsiveness	4	2.40	.83	.759*	.477*	.762*	(.874)		
Assurance	4	2.53	.86	.755*	.455*	.770*	.808*	(.909)	
Empathy	5	2.39	.81	.770*	.364*	.680*	.748*	.760	(.891)

<sup>\*\*</sup> Correlation is significant at the 0.01 level (2-tailed)

Coefficient alphas are presented along the diagonal

# 4.2 Hypothesis Testing

The first hypothesis was: Service quality (SQ) is related to student satisfaction (SS). A simple linear regression analysis was conducted to test the hypothesis. The result of the regression analysis for this hypothesis was statistically significant,  $R^2$  = .830, Adjusted  $R^2$  = .829, F (1, 99) = 479.73, p < .05. 83% of the variance in SS is accounted by SQ. Service quality is statistically significant ( $\beta$  = .911, p = 0.001). The sub-hypothesis 1, predicted that tangible (H<sub>1</sub>a), reliability (H<sub>1</sub>b), responsiveness (H<sub>1</sub>c), empathy (H<sub>1</sub>d) and assurance (H<sub>1</sub>e) will be related to SS.

A multiple regression analysis was conducted to test the above mentioned sub-hypothesis. The result of the multiple regression analysis is shown in Table 3. The regression model is statistically significant.  $R^2 = .695$ , F(5, 99) = 42.821, p < .05. The result of the multiple



regression analysis is shown in Table 3.

Table 3. Results of multiple regression analysis with dimensions of service quality as predictor of student satisfaction (N = 100)

Variable	β	t	p
Tangible	.032	.477	.634
Reliability	.075	.766	.445
Responsiveness	.225	2.035	.045
Assurance	.242	2.151	.034
Empathy	.356	3.772	.000

 $R^2 = .695$ , Adjusted  $R^2 = .679$ , F(5, 99) = 42.481, p = 0.001

Responsiveness was positively related to student satisfaction (SS) ( $\beta$  = .225, p < .05) indicating that the higher the level of responsiveness, the higher the level of student's satisfaction. Assurance ( $\beta$  = .242, p < .05) was positively related to SS, indicating that the higher the level of assurance provided by the university, the higher the level of student's satisfaction. Finally, empathy ( $\beta$  = .356, p < .05) was positively related to SS, indicating that the higher the level of empathy provided by the university, the higher the level of student's satisfaction. The above findings support the hypothesis H<sub>1</sub>c, H<sub>1</sub>d, H<sub>1</sub>e. R<sup>2</sup> value of .695 indicates that 69.5% of the variance in SS is explained by the five dimensions of SQ.

#### 5. Discussion and Conclusion

This study explored how service quality (SQ) is related to the student satisfaction (SS) of higher learning institution in Malaysia. The result indicated that overall the dimensions of SQ are related to SS. This means that the better the SQ provided by the institutions of higher learning, the higher the SS. In this study, only three dimensions is relevant predictors for SQ namely responsiveness, assurance and empathy. This means that students perceive these three dimensions of SQ as more important qualities need to be offered by the universities. Looking at these three dimensions, students rated higher on intangible services rather than tangible services.

Among the five dimension measured, empathy is the strongest dimension correlated with customer satisfaction which means that the more the higher learning institution cares about the students in the institution, the more satisfied the student will be. The finding of the present study is consistent with the results of previous studies in terms of the direction of the relationship (Parasuraman et al., 1985, 1988; Sureshchandar et al., 2002; Azman et al., 2009; Ravichandran et al., 2010; Rahim et al., 2010)

## 5.1 Theoretical and Practical Implications

Theoretically, this study contributes to the body of knowledge when the service quality (SQ) measurement instrument was first time used to measure the service quality in public higher learning institutions in Malaysia. The high reliability value suggested that the SQ measurement instrument is suitable to be used in evaluating the quality of services provided by public universities. This study helps to expand the application of the SQ measurement



instrument in education context particularly in eastern context.

Practically, finding of the study helps the management of the university to identify the weaknesses and strength in the present services offered to the students. The management of the university could take necessary action to improve and overcome these weaknesses to lead to better student satisfaction. Improvement on the quality of the equipment and facilities used by the student will help to increase the perceived tangibility of the equipment thus improve the reliability towards the services provided. On the other hand, they should also work hard to maintain other elements of service quality that students are currently satisfied with for example keep being responsive to student requirement and shows their concern towards student welfare. In addition to that, the SERVQUAL model and its implication on student satisfaction is least understood among Malaysian universities and students. This study would help in making the university among the pioneer adopter of SERVQUAL in the public higher learning institution in Malaysia as it has been proven that the dimension of service quality is suitable to measure the services administered by the university.

#### 5.2 Limitation and Future Research Directions

This study has several limitations which provide opportunity for future research. First and foremost, this study is done only in one of the public higher learning institution. A study among students in private learning institution is needed as it would provide better understanding about the phenomena that claims that students in the private institution enjoyed a higher student satisfaction due to a better quality of service. The comparison among private and government universities would allow validation of the claim that private institution is better in providing quality services to the student.

Future researchers could also focuses on regional study which looks into the comparison of service quality of several public institutions across the region such as South East Asia. This study focuses only one of the public institutions in Malaysia. Therefore, by having a regional study, a comparison could be done to measure the differences in service quality and students satisfaction. A standard for benchmarking can be achieved and this could lead to a better quality for the service provided. Finally, this study looks only to the dimension of service quality and student satisfaction. Future research could probably look onto the relationship of service quality towards student's performance with student satisfaction as a mediating or moderating factor.

# 5.3 Conclusion

In conclusion, the research finding presented here contributes to the existing knowledge of service quality and customer satisfaction both theoretically and practically. The result shown in the study demonstrates the importance of all elements in service quality (SQ) in assuring the student's satisfaction (SS). The result from the research provides opportunities for university management to improve the weaknesses in the services offered to the student thus ensuring that the quality of services provided to the student is at the highest level and student get optimal satisfaction when studying in the particular higher learning institution. We hope that this research would stimulate more research attention on how SQ could help higher



learning institution in delivering better satisfaction to students and at the same time, expand the research framework by examining and identifying various moderators and mediators that could enhance the existing relationship between SQ and SS.

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