

Journal of Advanced Research in Social and Behavioural Sciences

Journal homepage: www.akademiabaru.com/arsbs.html

ISSN: 2462-1951



Student's satisfaction on education system - A case study on A Malaysia university college



Tin Tin Ting^{1,*}, Shi Xuan Khoo¹, Kok Chun Chong¹

Department of Information and Communication Technology, Faculty of Computing and Information Technology, Tunku Abdul Rahman University College, 53300 Kuala Lumpur, Malaysia

ARTICLE INFO

ABSTRACT

Article history:

Received 20 September 2017 Received in revised form 20 November 2017 Accepted 22 November 2017 Available online 7 December 2017 Educational service quality is getting important nowadays especially with the arising of various technology that could assist the education services. This study explores the relationship between five education service quality dimensions (Tangibility, Responsiveness, Reliability, Assurance and Empathy) and students' satisfaction on a local private university college's education services through an online questionnaire. The result shows that students are satisfied with most of the services provided by the university college. It is interesting to find out that students agreed that technology could help in improving one of the service dimensions that scored the lowest satisfaction among students (Empathy). This result shows that technology could possibly improve an institution educational services satisfaction among students.

Keywords:

Education service quality, tangibility, responsiveness, reliability, assurance, empathy

Copyright © 2017 PENERBIT AKADEMIA BARU - All rights reserved

1. Introduction

In a competitive academic environment, students have been given many options to choose from various educational institutions. To attract students, educational institutions need to meet students' expectations in term of services provided. Many organizations realized that quality service is the key to distinct from competitors and guarantee long term sustainability [6, 9]. According to Annamdevula and Bellamkonda [1], students are the internal customers of the educational services in an institution and hence their opinion has a significant role in evaluating the institution's service quality. On the other hand, quality in teaching and learning can only be enhanced if the faculty members are satisfied [5].

What are the possible service qualities that will affect college students' satisfaction in the current education system in Malaysia? According to Hasan *et al.* [3], there are five main dimensions of services satisfaction which are: Tangibility, Reliability, Responsiveness, Assurance and Empathy. Tangible means "the appearance of physical facilities, equipment, personnel, and communications

E-mail address: tingtt@acd.tarc.edu.my (Ting Tin Tin)

1

 $[^]st$ Corresponding author.



materials". Reliability refers to "the ability to perform the promised service dependably and accurately". Responsiveness refers to the "willingness of lecturer or staff to help student". Assurance is "the competence of the system and its credibility in providing a courteous and secure service". Meanwhile, Empathy means "the approachability, ease of access and effort taken to understand what student needs" [3]. In the meantime, Butt and Rehman [2] revealed that teachers' expertise is the main factor that affect student's satisfaction compared to courses offered, learning environment and classroom facilities in Pakistan. Vrana *et al.* [7] defined service quality as the "degree of excellence for meeting the customer's requirements, and control over the variability in achieving that excellence".

Can the educational services be improved by Information and Communication Technology (ICT)? Kim and Bonk [4] in the study of online e-learning reveals that faculty training and support is a crucial component for student satisfaction. Online e-learning can provide same level of satisfaction as traditional classroom. Other technology such as multimedia and WiFi could improve e-learning experience. Therefore, ICT could be an alternative to improve educational services be it online or offline. It is crucial to explore an institution's service quality as this will improve student retention [8].

2. Research Hypotheses and Methodology

2.1 Research Hypothesis

The objectives of this study is to explore the five service quality dimensions (tangibility, responsiveness, reliability, assurance, empathy and overall service quality) and their relationship with student's satisfaction and the possibility of ICT in improving the five service quality dimensions. The hypotheses are as follow.

H1: Students are satisfied with educational services in all five service quality dimensions.

H2: ICT is perceived by students in improving the five service quality dimensions.

2.2 Methodology

A set of online questionnaire is edited based on Hasan *et al.* [3] research. Before the questionnaire is distributed, reliability test is carried using Cronbach's Alpha analysis. This online questionnaire is then distributed to students in Tunku Abdul Rahman University College (TAR UC) in Kuala Lumpur. This questionnaire includes open-ended questions with explanations, and 5-point Likert scales questions (1 for strong satisfied and 5 for strongly dissatisfied). There are five different sections in the questionnaire which are: 1. Satisfaction in Tangible, 2. Satisfaction in Reliability, 3. Satisfaction in Responsiveness, 4. Satisfaction in Assurance, and 5. Satisfaction in Empathy. Average mean is calculated on each sections to conclude the study based on the hypotheses.

3. Results and Discussion

The reliability Cronbach's Alpha test for the questionnaire is firstly presented for 30 samples. Table 1 shows that Cronbach's Alpha analysis is 0.825 which indicates a high level of internal consistency of the questionnaire. A total of 300 samples are collected from TAR UC students. The following sections will discuss the result based on the hypotheses.



Table 1Reliability Statistic

Cronbach's Alpha	Cronbach's Alpha Based on Standardized items	N of items
0.825	0.825	25

3.1 Students' Satisfaction according to Five Service Dimensions

Table 2 reveals that most of the students are satisfied with all the five dimensions of educational services. The sequence of satisfaction among five dimensions of educational service is 1. Assurance (average mean = 2.64), 2. Tangible and Responsiveness (average mean = 2.69), 3. Reliability (average mean = 2.72), 4. Empathy (average mean = 2.74). H1 is accepted in which TAR UC students are satisfied with all the five dimensions of educational services. The five service dimensions score almost same means with slight difference only. This also means that TAR UC provides quality service consistently in five dimensions.

Table 2Service dimensions and students' satisfaction

Dimension		Scale	Number of Respondents	Percentage of respondents	Mear
Tangible	Appearance of	Strongly Satisfied	71	23.7%	2.42
	Lecturer	Satisfied	77	25.7%	
		Neutral	118	39.3%	
		Dissatisfied	23	7.7%	
		Strongly Dissatisfied	11	3.7%	
	Lighting in Classroom	Strongly Satisfied	36	12.0%	2.60
		Satisfied	112	37.3%	
		Neutral	100	33.3%	
		Dissatisfied	40	13.3%	
		Strongly Dissatisfied	12	4.0%	
	Classroom Cleanness	Strongly Satisfied	38	12.7%	2.71
		Satisfied	100	33.3%	
		Neutral	95	31.7%	
		Dissatisfied	46	15.3%	
		Strongly Dissatisfied	21	7.0%	
	Computers Adequacy	Strongly Satisfied	35	11.7%	2.82
	Provided in the Lab	Satisfied	76	25.3%	
		Neutral	123	41.0%	
		Dissatisfied	41	13.7%	
		Strongly Dissatisfied	25	8.3%	
	Access to the	Strongly Satisfied	32	10.7%	2.90
-	internet/email	Satisfied	76	25.3%	
		Neutral	107	35.7%	
		Dissatisfied	59	19.7%	
		Strongly Dissatisfied	26	8.7%	
				Average Mean	2.69
Assurance	Friendly and	Strongly Satisfied	56	18.6%	2.58
	courteous university	Satisfied	84	28.0%	
	staff	Neutral	110	36.7%	
		Dissatisfied	30	10.0%	
		Strongly Dissatisfied	20	6.7%	
	Friendly and	Strongly Satisfied	42	14.0%	2.54



	courteous lecturers	Satisfied	105	35.0%	
	courteous recturers	Neutral	112	37.3%	
		Dissatisfied	30	10.0%	
		Strongly Dissatisfied	11	3.7%	
	Lecturers research	Strongly Satisfied	47	15.6%	2.67
	efficiency/	Satisfied	86	28.7%	2.07
	productivity	Neutral	107	35.7%	
	productivity	Dissatisfied	39	13.0%	
		Strongly Dissatisfied	21	7.0%	
	Lecturers are	Strongly Satisfied	37	12.3%	2.72
	innovative and agents	Satisfied	88	29.3%	2.72
	of change				
	of change	Neutral Dissatisfied	114 44	38.0% 14.7%	
	Carrantian dilla	Strongly Dissatisfied	17	5.7%	2.60
	Communication skills:	Strongly Satisfied	43	14.3%	2.68
	courses are well	Satisfied	94	31.3%	
	taught by the lecturers in this	Neutral	99	33.0%	
		Dissatisfied	43	14.3%	
	university	Strongly Dissatisfied	21	7.0%	
				Average Mean	2.64
Reliability	This university keeps	Strongly Satisfied	51	17.0%	2.49
	its records accurately	Satisfied	105	35.0%	
		Neutral	103	34.3%	
		Dissatisfied	29	9.7%	
		Strongly Dissatisfied	12	4.0%	
	This university	Strongly Satisfied	38	12.7%	2.69
	provides its services	Satisfied	87	29.0%	
	at a time it promises	Neutral	118	39.3%	
	to do so	Dissatisfied	43	14.3%	
		Strongly Dissatisfied	14	4.7%	
	Teaching capability of	Strongly Satisfied	38	12.6%	2.74
	lecturers/ proficiency	Satisfied	87	29.0%	
		Neutral	113	37.7%	
		Dissatisfied	40	13.3%	
		Strongly Dissatisfied	22	7.3%	
	Lecturers sincere	Strongly Satisfied	34	11.4%	2.82
	interest in solving	Satisfied	77	25.7%	
	student's problem	Neutral	121	40.3%	
	,	Dissatisfied	44	14.7%	
		Strongly Dissatisfied	24	8.0%	
	Staff sincere interest	Strongly Satisfied	31	10.3%	2.88
	in solving student's	Satisfied	73	24.3%	2.00
	problem	Neutral	122	40.7%	
	problem	Dissatisfied	48	16.0%	
		Strongly Dissatisfied	26	8.7%	
		3ti Oligiy Dissatished	20		2.72
Docnonciuon	Availability of	Ctrongly Catisfied	59	Average Mean	
Responsiven ess	Availability of lecturers to assist you	Strongly Satisfied		19.6%	2.42
500	iecturers to assist you	Satisfied	103	34.3%	
		Neutral	101	33.7%	
		Dissatisfied	27	9.0%	
		Strongly Dissatisfied	10	3.3%	
	Lecturers capacity to	Strongly Satisfied	39	13.0%	2.66
	solve problems when	Satisfied	91	30.3%	
	they arise	Neutral	117	39.0%	



		Dissatisfied	39	13.0%	
		Strongly Dissatisfied	14	4.7%	
	Availability of	Strongly Satisfied	43	14.4%	2.70
	personnel to assist	Satisfied	81	27.0%	
	you	Neutral	117	39.0%	
		Dissatisfied	42	14.0%	
		Strongly Dissatisfied	17	5.7%	
	Staffs capacity to	Strongly Satisfied	34	11.3%	2.81
	solve problems when	Satisfied	80	26.7%	
	they arise	Neutral	114	38.0%	
		Dissatisfied	53	17.7%	
		Strongly Dissatisfied	19	6.3%	
	Queries are dealt	Strongly Satisfied	33	11.0%	2.84
	with efficiently and	Satisfied	71	23.7%	
	promptly	Neutral	129	43.0%	
		Dissatisfied	44	14.7%	
		Strongly Dissatisfied	23	7.7%	
				Average Mean	2.69
mpathy	Access to computer	Strongly Satisfied	64	21.3%	2.50
	facilities is	Satisfied	82	27.3%	
	accommodate with	Neutral	107	35.7%	
	students convenient	Dissatisfied	34	11.3%	
		Strongly Dissatisfied	13	4.3%	
	Staff are willing to	Strongly Satisfied	34	11.3%	2.79
	give students	Satisfied	85	28.3%	
	individual attention	Neutral	112	37.3%	
		Dissatisfied	49	16.3%	
		Strongly Dissatisfied	20	6.7%	
	The extent to which	Strongly Satisfied	37	12.3%	2.66
	lecturers are	Satisfied	87	29.0%	
	sympathetic and	Neutral	124	41.3%	
	supportive to the	Dissatisfied	44	14.7%	
	needs of students	Strongly Dissatisfied	8	2.7%	
	Opening hour of	Strongly Satisfied	35	11.7%	2.89
	computer rooms to	Satisfied	79	26.3%	
	the students	Neutral	102	34.0%	
		Dissatisfied	52	17.3%	
		Strongly Dissatisfied	32	10.7%	
	University are fair and	Strongly Satisfied	32	10.7%	2.84
	unbiased in their	Satisfied	75	25.0%	
	treatment of	Neutral	126	42.0%	
	individuals student	Dissatisfied	43	14.3%	
			.5	_ 1.570	
		Strongly Dissatisfied	24	8.0%	

3.2 Service Dimensions that can be improved by ICT

Table 3 reveals that students agree that Empathy can be improved by ICT (56%). Meanwhile, Tangible, Assurance, Reliability, and Responsiveness are not possible to be improved by ICT. Therefore, H2 is rejected as not all service dimensions can be improved by ICT according to students' opinions (No = 55.33%). Nevertheless, Table 2 shows that students have lowest satisfaction on Empathy and this dimension is believed by students that ICT could help in improving this dimension. This reveals that students has the inherent opinion that the educational services



could be improved by ICT. Further research could be carried out to explore different educational ICT tools that can be used to improve different dimensions of educational services.

Table 3Service dimensions and possibility to be improved by ICT

Dimension	Scale	Number of	Percentage of
Difficitsion		Respondents	respondents
Tanaihla	Yes	149	49.67%
Tangible —	No	151	50.33%
Assurance —	Yes	108	36%
Assurance —	No	192	64%
Doliokility	Yes	134	44.67%
Reliability —	No	166	55.33%
Dognonsiyonoss	Yes	131	43.67%
Responsiveness —	No	169	56.33%
Empathy	Yes	168	56%
Empathy —	No	132	44%

4. Conclusion

TAR UC students are satisfied with the college's services in terms of Tangible, Assurance, Reliability, Responsiveness and Empathy. Although Empathy scores the lowest satisfaction among the five dimensions, this study reveals that the students believed that there is a possibility that this dimension could be improved by ICT. This provides an insight to the researchers and educators that more educational ICT tools should be explored to improve education systems. However, for the other four satisfied dimensions (Tangible, Assurance, Reliability and Responsiveness), most of the students rated that these dimensions could not be improved by ICT anymore. This could be due to the reason that students think that it is not necessarily to add ICT into these dimensions as the existing technology is suffice to cater their needs. The reason behind the phenomena could be further explored in the future work. Besides that, this research can be further extended to other private colleges and public universities to generalize the finding and test different educational tools to find out suitable ICT tools that could improve institutions' educational services quality.

References

- [1] Annamdevula, Subrahmanyam, and Raja Shekhar Bellamkonda. "Development of HiEdQUAL for Measuring ServiceQuality in Indian Higher Education Sector." *International Journal of Innovation, Management and Technology* 3, no. 4 (2012): 412.
- [2] Butt, Babar Zaheer, and Kashif ur Rehman. "A study examining the students satisfaction in higher education." *Procedia-Social and Behavioral Sciences* 2, no. 2 (2010): 5446-5450.
- [3] Hasan, Hishamuddin Fitri Abu, Azleen Ilias, Rahida Abd Rahman, and Mohd Zulkeflee Abd Razak. "Service quality and student satisfaction: A case study at private higher education institutions." *International Business Research* 1, no. 3 (2009): 163.
- [4] Kim, Kyong-Jee, Shijuan Liu, and Curtis J. Bonk. "Online MBA students' perceptions of online learning: Benefits, challenges, and suggestions." *The Internet and Higher Education* 8, no. 4 (2005): 335-344.
- [5] Quraishi, Uzma, Ishtiaq Hussain, Makhdoom Ali Syed, and Farah Rahman. "Faculty satisfaction in higher education: A TQM approach." *Journal of College Teaching and Learning* 7, no. 6 (2010): 31.
- [6] Veerasamy, Dayaneethie, Dion Trevor Noel, and Jeevarathnam Parthasarathy Govender. "The service quality experience of International students: the case of a selected higher education institution in South Africa." (2014).
- [7] Vrana, Vasiliki G., Sotirios G. Dimitriadis, and George J. Karavasilis. "Students' perceptions of service quality at a Greek higher education institute." *International Journal of Decision Sciences, Risk and Management* 6, no. 1 (2015): 80-102.
- [8] Wilkins, Stephen, and Melodena Stephens Balakrishnan. "Assessing student satisfaction in transnational higher education." *International Journal of Educational Management* 27, no. 2 (2013): 143-156.



[9] Abiddin, N. Zainal, and G. M. Akinyemib. "A Comparison of Quality Administration and Management in Higher Education in Nigeria and Malaysia: Implication for Human Resource Development." (2015): 1-9.