Service Quality and Student Satisfaction: The Mediating Role of Service Culture in Higher Educational Institutions in Pakistan

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Abstract

This paper aims to extend knowledge and the concept between service quality and service satisfaction in higher education through a mediating role of service culture. The researchers have theoretically conceptualized and tested for statistical analysis. Questionnaires were distributed among the target population, and 233 respondents returned the questionnaire. A closed-ended questionnaire was used for data collection, and a non-probability convenience sampling technique was used. Moreover, collected data was refined using screening tests, and the theoretical model was statistically tested through Structural Equation Model (SEM). The results revealed the mediated relationship between service quality and service satisfaction. This study supports service culture as a potent mediator in service satisfaction in higher educational contexts. Hence, service culture bridges quality and satisfaction in the service domain. Besides academicians, this study focuses on not only the service quality but also gives close attention to service culture so that customers can be satisfied widely. Additionally, this research fulfils the theoretical gap by introducing the service culture as a mediator that may lead to a new perspective in service marketing. Other researchers may contribute to this theory by employing other research methods and techniques in different service industry fields.

Keywords: Service culture, student satisfaction, service quality, and Structural Equation Model.

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INTRODUCTION

Service quality and its dimensions have remained a considerable area for academicians and scholars to investigate the antecedents of quality in an educational context (Saxena, Chawla, & Tähtinen, 2022). Service quality is the perception of customers about products (Akhmedova, Manresa, Escobar, and Bikfalvi, 2021). Students are viewed as prime customers in education (Gupta, Singh, Mathiyazhagan, Suri, and Dwivedi 2022). Quality works as a tool in attracting and retaining students and helps in greater academic performance in higher educational institutions (Park & Kim, 2022). Ahmed et al. (2010) found that service quality generates a positive attitude and directly correlates with satisfaction. Akhmedova et al. (2021) describe service quality might be applied in the educational sector. Educational institutions are competing on the ground of quality where students are key players to be considered (Chikazhe, Makanyeza, & Kakava, 2022). Alridge and Rowley (2001) explored that one of the reasons for student withdrawal from education is dissatisfaction with imperfection in their studies (Mosadeghard, 2006). Dean and Gibbs (2015) identified that one of the serious concerns of universities is managing education quality and student satisfaction to enhance resources for students' effective learning and enrichment. Hence, education and quality are associated, which determines student satisfaction. Similarly, service culture is the most important construct that helps catalyse the interaction of quality and satisfaction (Gronroos, 2007). Therefore, this study is an empirical investigation of service quality, service culture, and student satisfaction in higher educational institutions. Education through creating, communicating, and delivering superior quality is a severe concern to all educational institutions. Similarly, service quality in education is viewed as a bloodstream in the deliverance of student satisfaction because it floats in institutions and students. Service quality requires a significant frame where quality can satisfy students. Past researchers have conceptualized the association between service quality and service culture and service culture with customer satisfaction, but the relationship between service quality and customer satisfaction with a mediating contribution of service culture has not been tested empirically. This research also aimed to assess the service culture as mediating variable on service quality and student satisfaction in higher educational institutions.

LITERATURE REVIEW

Service Quality

Service quality is customers' perception, and satisfaction is the immediate response to consumption or avail of a service (Bitner and Hubbert, 1994; Culiberg, 2010). Therefore, service quality is the judgement of a customer's expectations and perception. If services are as per expectations, the outcome is satisfaction, and if exceed expectations the consumers will be delighted and will perceive service quality as excellent and vice versa (Parasuraman et al., 1985; Jalal, Hanaysha, Haim, Abdullah and Warokka, 2011; Petruzzellis, Uggento, & Romanazzi, 2006). Therefore, improving service quality depends on the institution's ability to meet the student's needs and desires consistently. Educational institutions can generate a smooth edge over the competition by creating, maintaining, and delivering superior quality services to students, leading to higher satisfaction. It will grant various benefits to educational institutions. For instance: providing attention to the students and proper communication, active involvement in student's perception and expectations of service quality, and providing facilities

can help a student to get services in better understanding, delivering a flexible and interactive being student-centric rather than teaching-oriented environment (Nadiri, Kandampully, & Hussain, 2009; Kuo & Ye, 2009; Martı´nez-Caro, 2011).

Service Quality Dimensions

Service quality evaluation is assessed through SERVQUAL dimensions, tangibility, reliability, responsiveness, empathy, and assurance (Parasuraman et al., 1985). The operational definition of these constructs is as follows: Reliability is the ability to provide promised services in a dependable, continuous, and corrective manner without negligence and failure (Li, Lu, Hou, Cui, & Darbandi, 2021; Zekiri, 2011; An and Noh, 2009). It refers to the skill of executing and assuring that offers are precisely and consistently delivered (Parasuraman et al., 1990). Reliability is operationalized using four items: teaching efficiency, class punctuality, staff's sincere interest in solving students' problems, and providing services within the promised time. Responsiveness is the willingness to help students and deliver prompt service with immediate response in case of requests (Nguyen & Malik, (2021). Therefore, the eagerness and readiness of personnel to supply speedy services are essential as costumes are extremely sensitive about personnel in a service environment (Brown and Mitchell, 1993).

Institutional fastness in solving student problems, queries, or complaints is a crucial indicator of service quality (Malik, Danish, and Usman, 2010). Responsiveness has been measured using four items: willingness to help students, attention to student needs, keeping students informed about services, and keeping students updated regarding schedules. Assurance involves the knowledge and kindness of employees and the ability to convey faith and confidence (Nelson and Chan 2005; Buttle, 1995; Parasurman et al., 1990).

Assurance has been operationalized using four items, i.e. employee's skilfulness in delivering service, kindness towards the student, ability to convey confidence in students, and employee's expertise in dealing with student queries. Tangibility is the appearance of physical facilities, equipment, staff members, and other communication materials (Lundstrom and Dixit, 2008), i.e. class layout, cafeteria, and furniture decoration. Tangibility is measured using eight items: Overall cleanliness, the appearance of employees, classrooms and study rooms comfort, parking availability, up-to-date technology & adequacy, variety and quality of campus food, Decoration and atmosphere, and the number of courses offered. Empathy refers to individual attention and cares for personals (Parasuraman et al., 1990). Therefore, in the education; context, employees should care about the needs and expectations of students (Malik, Danish, and Usman, 2010). Empathy has been measured using four items: accommodating students at convenience, employee customized attention, employee unbiased treatment, and extra consultation hours. As discussed above, educational service quality is a multi-dimensional composite of SERVQUAL reliability, responsiveness, assurance, tangibility, and assurance.

H1: service quality positively increases satisfaction among student

Service Culture

Service culture is a broader concept of organizational culture that is based on beliefs and values and comprises mutual benefits and interests of customers, owners, employees, and stockholders for a long-term profitable enterprise (Bartley et al. 2007). Gronroos (2007) describe a culture where appreciation of goods and services exist, along with delivering internal services and external customer is considered by everyone a natural way of life and one of the most important value' (Gronroos, 2007). Lauren et al. (2011) found that service culture is a unidimensional construct and positively influences customer quality and organizational performance. Similarly, service culture has remained the centre of marketing strategy (Skalen and Strandvik, 2005). In the case of service settings, it is one of the most substantial elements that cause customer satisfaction, employee motivation, and organizational performance (Nuutinen and Lappalainen, 2012). Klidas et al., (2007) claimed that it is the shared perception of customers about service quality and customer satisfaction offered by service providers.

H2: Service quality positively influences service culture

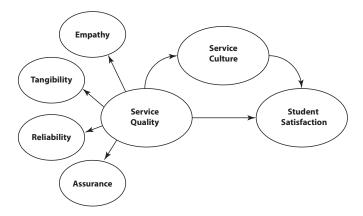
Service Satisfaction

Service satisfaction is the difference between a customer's perceived service performance and consumption benefits. In an educational context, satisfaction refers to the students' perception during and after consumption during college and university life (Hasan et al., 2008). Therefore, it is concluded that service satisfaction is a systematic conclusion of educational consumption for students (Zeithaml, Berry, and Parasuraman, 1988). Hence, service satisfaction in an educational context is referred to as student satisfaction which refers to student opinion about the institution where they are learning (national student survey, 2005).

Similarly, consumers with complete satisfaction also create attraction and positive word of mouth for other people, associates, and friends to pursue their studies in such educational institutions (Gruber et al., 2010; Helgesen band Nesset, 2007). Student learning, inspiration, motivation, loyalty, and satisfaction highly depend on teaching staff and employee skills and brilliance in higher education institutions (Rodie and Kleine, 2000; Edstrom, 2008; Sproule, 2000).

H3: Service culture increase satisfaction among students

H4: Service culture mediates the relationship between service quality and student satisfaction



METHODOLOGY

Sampling and data collection

The target population is the enrolled students of higher educational institutions in Sindh. Therefore researcher requested universities to share the list of students as the total population and the list of the elements of the population are the prerequisite for the probability sampling method. Unfortunately, the universities administration denied sharing such data due to the student secrecy act of universities and letting the researcher only option to select the nonprobability sampling method. Accordingly, the non-probability convenience sampling technique is used for this study. Bryman and Bell (2013, p.1050) endorse that convenience sampling is the accessibility for a researcher to collect the responses easily. Moreover, regarding sample size, Barclay et al. (1995) recommend that the expected standard for rigorous analysis technique just like Structural Equation Model-SEM should be big or more significant than at least 10 cases per predictor. Thus, 233 respondents were selected for to survey with closeended questionnaires. The respondents were familiar with the English language, and therefore, a five-point Likert scale was administered in English by using google forms and distributed among the contacts and groups for data collection. The service quality was measured with 15 items, service satisfaction was measured with nine items, and service culture was measured with 15 items. In this case total of 30 items scale was borrowed from Parasuraman et al. (1990) for service quality, Atheevaman (1997) for service satisfaction, and Lauren, Glenn Richey, Reynolds (2011) for service culture to complete the study. Data were collected from the students of different universities in four major regions of Sindh including Karachi, Hyderabad Sukkur, and Larkana. The higher education institutes in these cities are working under the same Standard Operating Procedure of the Higher Education Commission of Pakistan.

ANALYSIS AND RESULTS

Demographic profile of Respondents

In this study, the administered scale was composed of two sections. The first part was to know about respondents including their gender, age, and discipline. The second part was to collect their responses against the conceptual model by rating their most relevant answer. Concussively, a total of 233 responses were collected. The analysis indicates that most participants were male with a 73.3% ratio and only 26.6% were females, concluding that male contribution in this study is greater than female respondents. Moreover, 50.2% of respondents were between the ages of 18 to 24, the highest ratio, and 37.3% of students were of 25 to 29 ages whereas only 12.4% of individuals were 30 and above. It concludes that youngsters have contributed more than other age category individuals. In addition, respondents were enrolled in various education levels including 46.3% graduates, 34.3% postgraduates, and only 10.3% of students were Ms/Ph.D. graduates as shown in table no. 01.

Table 1.	Profile of Respondents
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Variables	Category	Frequency	Percentage
Gender	Male	161	73.3%
	Female	52	26.6%

Age	18-23	117	50.2%
	24-29	87	37.3%
	30 and above	29	12.4%
Discipline	Graduate	121	51.9%
	Post Graduate	88	37.7%
	Ms/Ph.D.	24	10.3%

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RELIABILITY AND VALIDITY ANALYSIS

The collected data were screened and refined before the analysis through SPSS. Reliability and validity statistics were checked for the purpose of internal consistency of items used in the scale. Therefore, Cronbach's alpha, composed reliability, and average variance were extracted and all items should be greater than 0.7. Bagozzi and Yi (1988) recommend that composite reliability be greater than 0.6 and that the average variance extracted shud not be less than 0.4. In this study, the reliability and validity of the scale are qualified and shown in table no. 02. It indicates that all items for service quality at (α) =0.81, (CR) =0.91, (AVE) =0.69, service culture at (α) =0.87, (CR) =0.85, (AVE) =0.67 and student satisfaction at (α) =0.72, (CR) =0.78, (AVE) =75 are consistent and qualified the convergent validity tests for further analysis.

 Table 2: Reliability and validity Analysis

Variables	(a)	(CR)	(AVE)
Thresholds	≥ 0.7	≥0.6	≥ 0.4
Service Quality	0.81	0.91	0.69
Service Culture	0.87	0.85	0.67
Student Satisfaction	0.72	0.78	0.75

Moreover, a discriminant validity test was conducted to identify the extent of the difference between one variable over another statistically (Fornell and Larcker 1981). Discriminate validity is an essential part of scale validation after convergent validity for any study. In this study, variables were tested and statistically qualified for the discriminant validity test as shown in table no. 03.

 Table 3: Fornell and Larcker (1981) Criterion Test

Variables	Service Quality	Service Culture	Student Satisfaction
Service Quality	0.731		
Service Culture	0.865	0.671	
Student Satisfaction	0.673	0.812	0.728

Structural Equation Modelling Results

Structural Equation Modelling (SEM) was employed to measure the conceptual model statistically.

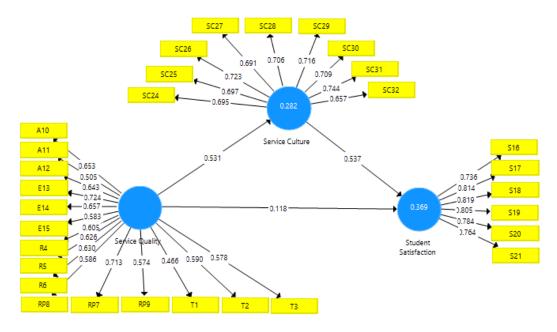


Figure 1: Shows a graphical representation of the conceptual model with a mediating effect.

Moreover, table no. 04 represents statistics of the structural model. It indicates that the relationship between service quality and service culture with a path coefficient is 0.531 with a standard deviation of 0.049, t values=9.215, p=0.001, service culture to student satisfaction path coefficient is 0.537 with a standard deviation of 0.597, t values=12.215, p=0.000 and finally service quality to student satisfaction path coefficient is 0.118 with standard deviation 0.515, t value=7.125, p=0.000. The results of the hypothesized model are significant.

Path	Original Sample	Sample Mean	Std. Deviation	T Statistics	Р
SQ→SC	0.531	0.525	0.049	9.215	0.001
$SC{\to}SS$	0.537	0.539	0.597	12.215	0.000
SQ→SS	0.118	0.119	0.515	7.125	0.000

 Table 4: Path Co-efficient

Mediation Analysis

The mediating relationship of service culture between service quality and student satisfaction was statistically tested in Smart PLS for the proposed model as shown in figure no.01. The specific indirect effect of the mediation revealed that service culture (SC) is the significant and robust mediator between service quality (SQ) and student satisfaction (SS) at 0.492, standard deviation 0.041, t values= 12.215 and p=0.000.

 Table 6: Mediation Analysis

Indirect Effect	Original Sample	Sample Mean	Std. Deviation	T Statistics	Р
SQ→SC→SS	0.492	0.489	0.041	12.215	0.000

Hypothesis Testing

Hypothesis H1 of this study was that service quality positively increases student satisfaction, which is supported statistically at β =0.118 with t-value = 7.125, p = 0.000. The second hypothesis H2 of this study was that service quality positively influences service culture which is also supported at β = 0.531 with t-value = 9.215, p = 0.001. The third hypothesis, H3 was that service culture increases student satisfaction, which is supported at β = 0.537 with t-value = 12.215, p = 0.000. The fourth hypothesis H4 of this study was that service culture mediates the relationship between service quality and student satisfaction which is supported by β = 0.492, t-value = 12.215, and p = 0.000.

Model Fit Indices

Model fit indices including Chi-square, Square Root Mean Residuals, and Normative Fit Indices (NFI) were extracted for the saturated model. Many researchers rely on fit indices to quantify the degree of data–model fit. The results of fit indices conclude that the model is statistically fit at SRMR = 0.089, Chi-Square = 4089.458, and NFI= 0.984 as shown in table no. 06.

Table 6: Mode Fit Indices

Indices	Saturated Model
Chi-Square	4089.458
SRMR	0.089
NFI	0.984

CONCLUSION, LIMITATIONS AND RECOMMENDATIONS

Conclusion

The purpose of this study is to explore the relationship between service quality and student satisfaction with mediating effect of service culture. The results of this study have broadened the theory about student satisfaction on an empirical basis with a mediating role of service culture. The experimental relationship of used variables service quality with student satisfaction positively increase satisfaction among students is supported. Similarly, all hypotheses are supported and statistically proved. This study has implications for the general concept of how customers can be delighted. Although quality is considered one of the main contributors to satisfaction, service culture plays a vital role. Therefore it can be concluded that service culture is a crucial factor for service organizations. This study suggests that managers and service sector personnel must focus on service culture to fulfil student satisfaction in education. Similarly, organizations in the academic context must apply service culture as a connecting element in satisfying their students. Higher education institutions need to develop a service culture in education settings to increase student satisfaction.

Limitations

There are always limitations to every research including this study. The first limitation of this study is the context-specificness. Hence, the results of the study should be interpreted

accordingly. This study extends the theoretical knowledge of the conceptual model in an education context. However, service culture implementation in other contexts is the second limitation of this study. Moreover, only regular students of higher education institutions were the target sample in this study. Therefore pass out, or dropout students are omitted.

Future Directions

Future researchers can implement this research model in other service domains such as tourism and hospitality, health and medical, retail and baking, etc. by increasing sample size or using other statistical analyses. Future scholars can also add more variables to predict student satisfaction. The role of moderating variables such as supervisor support and university type can be explored in the same context. Future researchers can further elaborate on the concept by conducting cross-cultural and longitudinal studies by adding other demographical variables.

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