The Impact of Perceived Service Quality on Students’ Intentions in Higher Education in a Jordanian Governmental University

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Abstract

This study aims to investigate the impact of perceived service quality regarding the academic side on students’ behavior intentions in a Jordanian governmental university. A survey was conducted on a stratified systemic random sample of 841 students, yielding 572 participants with 68% response rate. The findings show that perceived service quality as well as the tangibility and assurance dimensions affect students’ intentions of recommending to study at their university. Further, perceived service quality as well as the tangibility dimension affects students’ intentions of moving to study at another university. The results also proved that the two genders perceived the tangibility dimension of service quality differently, as males reported higher assessment. The study has provided important insights into service quality and behavior intentions in the field of Higher Education.

Keywords: service quality, student behavior intentions, higher education, university, Jordan

1. Introduction

Student retention has become a challenging problem for the academic community, thus effective measures for student retention must be implemented in order to increase the retention of qualified students at higher education institutions (Lau, 2003). Providing good service quality to customers helps retaining them and attracting new ones, as well as encouraging positive recommendation (Negi, 2009; Ladhari, 2009). Thus, there has been much interest in exploring the relationship between service quality and customer behavioral outcomes, for which a researcher is supposed to assess service quality. Therefore, higher education institutions have to continue to deliver a high quality service and satisfy students in order to succeed in a competitive service environment as DeShields et al. (2005) argued.

There is clear evidence on the importance of service quality in higher education institutions according to many studies (e.g., Angell et al., 2008; Ham & Hayduk, 2003). The applicability and adaptation of the service quality concepts and evaluation models into the higher education sector have received much attention in recent years and are considered the main goal to achieve (Temizer & Turkyilmaz, 2012). Baron et al. (2009, p. 167) revealed that: “Service quality is the single most researched area in services marketing to date.”

A greater attention has been paid to service quality by marketing academics and practitioners in the past few decades. Academics, in particular, were very much interested in the measurement of service quality (e.g., Cronin & Taylor, 1992; Parasuraman et al., 1985, 1988, 1994; Negi, 2009).

This study was conducted in a Jordanian governmental University to address two research questions and to achieve two objectives. The first research question was: “Does perceived service quality vary between the two genders?” The second question was: “Does perceived service quality influence students’ behavior intentions regarding recommending to study at their university and to move to another university?”

The first objective of this study was to explore the differences between the two genders in perceiving service quality. The other objective was to investigate the impact of perceived service quality on students’ behavior intentions in terms of recommending their university and moving to another university. The perceived service quality was regarding the academic side. Differences in perceived service quality and its impact were assessed in terms of each service quality dimension as well as the overall perception.
2. Literature Review

2.1 Service Quality Definition

Defining quality in Higher Education has proved to be a challenging task (Khodayari & Khodayari, 2011). As it is a complex and versatile concept and there is a lacking in appropriate definition in higher education (Harvey & Green, 1993). It is suggested by Cheng and Tam (1997) that education quality is a rather vague and controversial concept.

By defining service quality, companies will be able to deliver services with higher quality level presumably resulting in increased customer satisfaction (Ghylin et al., 2008, p. 76). Service quality is defined as the overall assessment of a service by the customer (Eshghi et al., 2008, p. 121). Parasuraman et al. (1988, p. 15) defined service quality as ‘a global judgment or attitude relating to the overall excellence or superiority of the service’. Further, Rowley (1997) defined the perceived quality as the customer’s assessment about an entity’s overall excellence or superiority. Furthermore, Athiyaman (1997) defines perceived service quality “as an overall evaluation of the goodness or badness of a product or service”.

Consequently, there are many ways to define quality in Higher Education and each definition has its own criteria and perspective (Harvey & Green, 1993). Takalo et al. (2013) stated that education quality refers to the characteristics of education factors and using capabilities and potentials of those factors, explicit and implicit expectations and needs of educational customers can be met and their expectations can be achieved.

2.2 Service Quality Evaluation Methods

There are different measurements used to measure quality services in Higher Education. There are six quality dimensions in Higher Education as proposed by Owlia and Aspinwall, (1996). These dimensions are tangibility (adequate equipment and facilities), competence (teaching expertise, practical and theoretical knowledge), attitude (understanding students’ needs, courtesy, personal attention, willingness to help, etc.), content (practical relevance of curriculum, being cross-disciplinary, flexibility of knowledge, etc.), delivery (effective presentation, feedback from students, encouraging students, etc.), reliability (trustworthiness, handling complaints, solving problems) (Owlia & Aspinwall, 1996).

On the other hand, Zineldin (2007) stated that the measurement of students’ perceptions about the quality of service offered by a university can reflect the level of overall students’ satisfaction within the institution. He focused on five quality dimensions in his proposal. They were object quality, process quality, infrastructure quality, interaction and communication quality, and atmosphere quality (Zineldin, 2007).

Further, using both qualitative and quantitative measures, Abdullah (2006) developed and validated HEdPERF, a method to evaluate service quality specifically designed for Higher Education sector.

Beside these methods of evaluation, SERVQUAL is recognized as an implemented and experienced instrument that has been successfully applied in various different contexts (Buttle, 1996). It is one of the most famous broadly used models to evaluate quality developed by Parasuraman et al. (1988). SERVQUAL comprises five dimensions namely- tangibles, reliability, responsiveness, assurance and empathy. This evaluation method was utilized as some researchers recommended to be used in higher education institutions (e.g., Seymour, 1992; Arambewela & Hall, 2006; Dado et al., 2012; Ibrahim et al., 2013; Ilyasi et al., 2013; Koni et al., 2013).

The majority of studies in Higher Education service quality have focused on student’s point of view more than the perspectives of academic and administration staff (Khodayayari & Khodayayari, 2011). Owlia and Aspinwall (1996) shed the light on the role of students in Higher Education. Harvey (2001, p. 4) stated that “institution-wide student feedback about the quality of their total educational experience is an area of growing activity in Higher Education institutions around the world”.

In the same vein, SERVQUAL was used by several researchers in HEIs to capture students’ point of view (e.g., Seymour, 1992; Tahmouri et al., 2010). Saadati (2012) measured service quality of US education institutions from student points of view. Further, there are many studies utilized SERVQUAL model for measuring customer perception (Brochado, 2009; Lee & Tai, 2008). The current study used SERVQUAL to measure the services quality in Higher Education through students’ perspectives only.

In addition, Hill (1995) recognized the difficulty of measuring students’ expectations. Hill confirmed that many students do not even know what expectations they have, or which expectations they had about the service provided.

It is found by some researchers that measurement of expectations does not supply exclusive information for estimating service quality; they argued that performance-only assessment has already taken into account much of
this information (Babakus & Boller, b1992). Therefore, the current study utilized SERVQUAL model to evaluate
students’ perceived service quality in Higher Education without their expectation.

2.3 The Relationship between Services Quality and Demographic Attributes

2.3.1 Gender

As females and males have different needs and wants, they are expected to be concerned and subsequently
perceive service quality differently (Bowie & Buttle, 2004). Hence, females are expected to assess service
quality lower than males, which was proved elsewhere. For example, Snipes et al. (2006) found that females
evaluate service quality consistently lower than do males; females expect a higher service quality and consider
this more crucial than do their male counterparts.

These differences were also reported regarding different dimensions of service quality. For example, women
generally have higher expectations concerning the importance of service delivery than do men particularly in the
tangible dimension (Ross et al., 1999). Further, Lee et al. (2012) concluded that a significant difference in the
perception of responsiveness between the female and male customers in the senior age group. Specifically,
female mature customers are more likely to be concerned with responsiveness than are the male mature
customers.

This leads to the first two research hypotheses:

HA1: There are differences in the perceived service quality between the two genders.

HA2: There are differences in the perceived five dimensions of service quality between the two genders.

2.4 Perceived Services Quality and Behavior Intentions

The relationship between perceived service quality and several behavior intentions has been proofed in
numerous studies (e.g., Boulding et al., 1993; Zeithaml et al., 1996; De Ruyter et al., 1998; Lee & Cunningham,
2001; Gracia et al., 2011; Ha & Jang, 2012).

Zeithaml et al. (1996) proposed a model for the consequences of perceived quality, through which they
differentiated between favorable and unfavorable behavior intentions. Behavior intentions include intention to
recommend for others (e.g., Zeithaml et al., 1996; Bloemer et al., 1999), and intention to repurchase (e.g.,
Alexandris et al., 2002; Ranaweera & Neely, 2003; Fen & Lian, 2005; Nadiri & Hussain, 2005; Negi, 2009).
These two behavior intentions are addressed in this study.

The first behavior intention is the intention of recommending for others. Service recommendation, also referred
to as advocacy and word-of-mouth in the customer service literature, which can be either positive or negative
(Bontis et al., 2007).

The other behavior intention is labeled repurchase intentions. Repurchasing in service industry resembles
retaining the old customers, which is labeled as retention. In order to attain new customers and retain the old one,
the service quality is the significant instrument that can be used, which is also receiving importance in Higher
Education (Ilyasi et al., 2003).

The willingness to recommend and willingness to choose the institution where the service was delivered
repeatedly, were implied in some literature as aspects of loyalty construct (e. g., Caruana, 2002; Purgailis &
Zaksa, 2012; Hassan et al., 2013). In this regard, Henning-Thurau et al. (2001) postulate several reasons for the
importance of students’ loyalty in educational institutions that included retaining students, and recommending
the institution, which are broadly considered as a vital success factor in service industry.

Further evidence was reported in Higher Education literature by De Jager and Gbadamosi (2010), where
perceived service quality was significantly correlated with students’ intention to leave the university.

The effect of perceived service quality on these two behavior intentions were examined throughout the
dimensions of service quality. For instance, Hassan et al. (2013) reported significant effects of each dimension of
perceived service quality on customer loyalty in the banking industry.

Students’ intentions to leave their university studies can be seen as a result of their experience in their
universities or other reasons.

Due to several reasons including their experience in their universities, some students may have intentions to
leave their university studies. Therefore, it can be worthy to control for these intentions to verify the effect of
perceived quality on behavior intentions.

Similarly, a significant difference in the perception of the five service quality dimensions between the senior and
younger participants based on the SERVQUAL was reported repeatedly (e.g., Lee et al., 2012). On the other hand, age has some influence on behavior intentions (e.g., Salanova et al., 2005; Realo & Dobewall 2011; Koni et al., 2013). This applies to study level, as a significant relationship was reported with behavior intentions where students tend to make the decision to transfer to other institutions normally during the first and second year of study (Koni et al., 2013).

Therefore, to clarify the effect of perceived service quality on behavior intentions, age and study level will be controlled for in determining the effect of perceived service quality on behavior intentions. Further, according to the previous argument for the first hypothesis, gender will be controlled for as well. Thus, the following hypotheses are proposed.

H$_{3}$: After controlling for personal characteristics (age, gender, education level, educational attainment, and intention to leave university study), the perceived service quality affect the students’ intentions of recommending to study at their university.

H$_{4}$: After controlling for personal characteristics (age, gender, study level, educational attainment, and intention to leave university study), the five dimensions of service quality affect the students’ intentions of recommending to study at their university.

H$_{5}$: After controlling for personal characteristics (age, gender, study level, educational attainment, and intention to leave university study), the perceived service quality affects the students’ intentions of moving to study at another university.

H$_{6}$: After controlling for personal characteristics (age, gender, study level, study grade, and intention to leave university study), the five dimensions of service quality affect the students’ intentions of moving to study at another university.

3. Methodology

3.1 Scale Measurement

3.1.1 Perceived Service Quality

This study aims to investigate the impact of perceived service quality on students’ behavior intentions in a Jordanian governmental university. A modified version of SERVQUAL instrument was used. SERVQUAL scale, suggested by Parasuraman et al. (1988) is a clear evidence in higher education literature. The SERVQUAL tool, which is effective in measuring service quality in the higher education environment, is helpful in preparing guidelines for changing weaknesses to strengths (Harris, 2002; Angell et al., 2008; Yang, 2008).

Therefore, dimensions of SERVQUAL used to measure students’ perceptions of service quality at University were as follows:

* Tangibles: include Physical facilities, equipment, and appearance of personnel;
* Reliability: refers to ability to perform the promised service dependably and accurately
* Responsiveness: is Willingness to help customers and provide prompt service;
* Assurance: is knowledge and courtesy of employees and their ability to inspire trust and confidence;
* Empathy: caring, individualized attention the firm provides to its Customers.

*Main Source: Parasuraman, Zeithaml, and Berry (1988).*

The questionnaire was based on only service perception, recommended by Nadiria et al. (2009). Hill (1995) recognized the difficulty of measuring expectations for students. Hill confirmed that many students do not even know what expectations they have, or which expectations they had about the service provided Purpailis and Zaksa (2012).

The negative empirical findings concerning the measurement of expectations led to some doubt about its value Nadiri at al. (2009). Several researchers indicated that measurement of expectations does not provide unique information for estimating service quality, and they argue that performance-only assessment has already taken into account much of this information (Babakus & Boller, 1992; Cronin & Taylor, 1992)

This measurement is applied and used by many scholars in different studies measuring service quality in higher education (e. g., Soteriou & Zenios, 1997; Arambewela & Hall, 2006; Yeo, 2009; Nadiri et al., 2009; Ibrahim et al., 2013).

As the original, all the items of the measurements were assessed with seven –point Likert – Type scale to measure the students perception ranging from (1) Strongly disagree to (7) Strongly agree. This technique is used
by different researchers (e.g., Arambewela & Hall, 2006; Khodayari & Khodayari, 2011; Dado et al., 2012; Ilyasi et al., 2013).

3.1.2 Students’ Behavior Intentions

Single-item measure was used for each of the two variables which relate students’ behavior intentions. Rossiter, (2002) has strongly argued that intentions should not be captured with multiple-item scales. This variable measure through two questions based on extensive literature (e.g., Zeithaml et al., 1996) these questions are as follows:

- Do you intend to recommend your university to the new students?
- Do you intend to move to another university?

These two items were assessed with seven–point Likert – Type scale to measure from (1) Strongly disagree to (7) Strongly agree. This technique is used for matching the first variable.

3.1.3 Intentions to Leave the Study

A single-item measure was used to assess this variable with seven–point Likert – Type scale ranging from (1) Strongly disagree to (7) Strongly agree. This technique is used for matching the first and second variable. this question was as follows:

- Do you intend to leave the study?

3.2 Population and Sampling

This study was conducted in a Jordanian governmental university that has 8408 students at the time of the study. A stratified systemic random sample of 841 students was surveyed yielding 572 participants with 68% response rate. The method of selecting participants and the response rate would enable considering the sample as representative. Females were 311 whereas males were 230 and 31 respondents did not report their gender. Their ages varied between 18 and 40 with a mean of 20.62 and standard deviation of 2.298 and 79 who did not report their age.

4. Results and Discussion

4.1 Reliability

Cronbach’s coefficient alpha was used to test reliability of the overall service quality dimensions and of each dimension. The reliability of overall service quality scale was found .775 where the reliability of each dimension of service is as follows: tangibles (.692) reliability (.672), responsiveness (.660), assurance (.648) and empathy (.653). These values are above the generally agreed upon lower limit of 0.60 (Hair et al., 2006).

4.2 Hypotheses Testing

The researchers applied the hierarchical regression analysis approach to test the emerging hypotheses.

- **H1:** There are differences in the perceived service quality between the two genders.

The results of t-test show that there is no significant difference between males and females regarding perceived quality (p= 180). The 95% Confidence Interval of the difference is between -0.221 and 0.042. Details of the means and their standard deviations regarding behavior intentions and dimensions of perceived service quality are presented in Table (1).

- **H2:** There are differences in five dimensions of service quality between the two genders.

The results of t-test show that males assessed the tangibility dimension of service quality significantly (p= 000) higher than females. Nonetheless, differences between the two genders regarding the other dimensions were insignificant: reliability (p= .415), responsiveness (p=0.156), assurance (p= .849), and empathy (p= .628). The 95% Confidence Intervals of the difference for these dimensions are between (-0.311 and 0.128), (-0.417 and 0.067), (-0.191 and 0.232), and (-0.151 and 0.262), respectively. Details of the means and their standard deviations regarding behavior intentions and dimensions of perceived service quality are presented in Table (1). These results are consistent with the earlier discussion in literature review, especially concerning the tangibility dimension and the direction of differences Ross et al. (1999). Nonetheless, the differences in the other dimension are not significant, and thus this is not in line with Lee et al. (2012).
Table 1. Statistical results of means and standard deviations

<table>
<thead>
<tr>
<th></th>
<th>Female</th>
<th></th>
<th>Male</th>
<th></th>
<th>Missing</th>
<th></th>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Mean</td>
<td>SD</td>
<td>N</td>
<td>Mean</td>
<td>SD</td>
<td>N</td>
<td>Mean</td>
</tr>
<tr>
<td>Students’ intentions of moving to study at another university</td>
<td>307</td>
<td>3.14</td>
<td>2.437</td>
<td>223</td>
<td>3.60</td>
<td>2.489</td>
<td>27</td>
<td>3.38</td>
</tr>
<tr>
<td>Students’ intentions of recommending to study at their university</td>
<td>301</td>
<td>3.99</td>
<td>2.058</td>
<td>223</td>
<td>4.00</td>
<td>2.011</td>
<td>27</td>
<td>4</td>
</tr>
<tr>
<td>Student’s intention to leave university study</td>
<td>301</td>
<td>1.69</td>
<td>1.494</td>
<td>223</td>
<td>1.75</td>
<td>1.591</td>
<td>27</td>
<td>1.74</td>
</tr>
<tr>
<td>Perceived service quality</td>
<td>311</td>
<td>4.44</td>
<td>.799</td>
<td>230</td>
<td>4.53</td>
<td>.728</td>
<td>30</td>
<td>4.48</td>
</tr>
<tr>
<td>Reliability</td>
<td>296</td>
<td>5.10</td>
<td>1.271</td>
<td>217</td>
<td>5.19</td>
<td>1.220</td>
<td>28</td>
<td>5.14</td>
</tr>
<tr>
<td>Tangibility</td>
<td>278</td>
<td>4.21</td>
<td>1.235</td>
<td>217</td>
<td>4.63</td>
<td>1.070</td>
<td>25</td>
<td>4.41</td>
</tr>
<tr>
<td>Responsiveness</td>
<td>274</td>
<td>3.32</td>
<td>1.360</td>
<td>217</td>
<td>3.49</td>
<td>1.347</td>
<td>26</td>
<td>3.4</td>
</tr>
<tr>
<td>Assurance</td>
<td>279</td>
<td>5.17</td>
<td>1.249</td>
<td>215</td>
<td>5.15</td>
<td>1.094</td>
<td>28</td>
<td>5.16</td>
</tr>
<tr>
<td>Empathy</td>
<td>282</td>
<td>4.40</td>
<td>1.223</td>
<td>215</td>
<td>4.35</td>
<td>1.121</td>
<td>25</td>
<td>4.38</td>
</tr>
</tbody>
</table>

Note. N= number, SD= standard deviation.

Table 1 shows the mean and standard deviation values for perceived service quality and all the dimensions of service quality. The table also, shows these values for males and females. Regarding tangibility dimension, the table shows that the mean for males was (4.63) while for females it was (4.21) this result means that the evaluation of female tangible services at the university was low compared with males evaluation.

H₃: After controlling for personal characteristics (age, gender, study level, educational attainment, and intention to leave university study), the perceived service quality affects the students’ intentions of recommending to study at their university.

A hierarchical regression was used to test HA3. As shown in table 2, the results of hierarchical regression show that the control variables explain 1.9% (p= 0.174) of students’ intentions of recommending, whereas the dimensions of service quality explain 8.2% (p= 0.000). The values of standardized beta (b) show that perceived service quality (b= 0.291, p= 0.000) significantly affect students’ intention of recommending. The value of Durbin-Watson shows that there is no autocorrelation between residuals.

Table 2. Statistical results of testing HA3

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Standardized Coefficients</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>step1</td>
<td>step2</td>
</tr>
<tr>
<td>Students’ intentions of recommending to study at their university</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Constant)</td>
<td>.011 refined</td>
<td>.021</td>
</tr>
<tr>
<td>Education attainment</td>
<td>-.128</td>
<td>-.906</td>
</tr>
<tr>
<td>Study level</td>
<td>-.032</td>
<td>-.042</td>
</tr>
<tr>
<td>Gender</td>
<td>.011</td>
<td>.012</td>
</tr>
<tr>
<td>Age</td>
<td>.026</td>
<td>.022</td>
</tr>
<tr>
<td>Student’s intention to leave university study</td>
<td>.291</td>
<td></td>
</tr>
</tbody>
</table>

change in R² / Durbin-Watson | 0.019 | 0.082 | 1.847 |

H₄: After controlling for personal characteristics (age, gender, study level, educational attainment, and intention to leave university study), the five dimensions of service quality affect the students’ intentions of recommending to study at their university.

A hierarchical regression was used to test H₄. As shown in table 3, the results of hierarchical regression show that the control variables explain 3.5% (p= 0.001) of students’ intentions of recommending, whereas the
dimensions of service quality explain 15% ($p=0.001$). The values of standardized beta (b) show that out of the five dimension of service quality, only Tangibility ($b=0.209$, $p=0.001$) and Assurance ($b=0.163$, $p=0.021$) significantly affect students’ intention of recommending. The value of Durbin-Watson shows that there is no autocorrelation between residuals.

Table 3. Statistical results of testing $H_3$4

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Standardized Coefficients</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B Step1</td>
<td>Step2</td>
</tr>
<tr>
<td>Students’ intentions of recommending to study at their university</td>
<td>0.008</td>
<td>0.001</td>
</tr>
<tr>
<td>(Constant)</td>
<td>0.003</td>
<td>0.027</td>
</tr>
<tr>
<td>Education attainment</td>
<td>-0.154</td>
<td>-0.1</td>
</tr>
<tr>
<td>Study level</td>
<td>-0.018</td>
<td>-0.036</td>
</tr>
<tr>
<td>Gender</td>
<td>0.077</td>
<td>0.031</td>
</tr>
<tr>
<td>Age</td>
<td>-0.117</td>
<td>-0.092</td>
</tr>
<tr>
<td>Student’s intention to leave university study</td>
<td>0.113</td>
<td>0.113</td>
</tr>
<tr>
<td>Reliability</td>
<td>0.209</td>
<td>0.001</td>
</tr>
<tr>
<td>Tangibility</td>
<td>-0.032</td>
<td>0.591</td>
</tr>
<tr>
<td>Responsiveness</td>
<td>0.163</td>
<td>0.021</td>
</tr>
<tr>
<td>Assurance</td>
<td>0.056</td>
<td>0.331</td>
</tr>
<tr>
<td>Empathy</td>
<td>0.056</td>
<td>0.331</td>
</tr>
<tr>
<td>Change in R2 / Durbin-Watson</td>
<td>0.035</td>
<td>0.15</td>
</tr>
</tbody>
</table>

The results of testing $H_3$ and $H_4$ are support the previous arguments presented in literature review, and consistent with the earlier discussion (Zeithaml et al., 1996; Bloemer et al., 1999).

$H_5$: After controlling for personal characteristics (age, gender, study level, educational attainment, and intention to leave university study), the perceived service quality affect the students’ intentions of moving to study at another university.

A hierarchical regression was used to test $H_5$. As shown in table 4, the results of hierarchical regression show that the control variables explain 8.7% ($p=0.000$) of students’ intentions of moving to study at another university, whereas the dimensions of service quality explain 4.2% ($p=0.000$). The values of standardized beta (b) show that perceived service quality ($b= -0.209$, $p=0.000$) significantly affect students’ intentions of moving to study at another university. The value of Durbin-Watson shows that there is no autocorrelation between residuals.

Table 4. Statistical results of testing $H_5$

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Standardized Coefficients</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B Step1</td>
<td>Step2</td>
</tr>
<tr>
<td>Students’ intentions of moving to study at another university</td>
<td>.047</td>
<td>.054</td>
</tr>
<tr>
<td>(Constant)</td>
<td>.004</td>
<td>.020</td>
</tr>
<tr>
<td>Education attainment</td>
<td>.120</td>
<td>.127</td>
</tr>
<tr>
<td>Study level</td>
<td>-.187</td>
<td>-.188</td>
</tr>
<tr>
<td>Gender</td>
<td>.205</td>
<td>.170</td>
</tr>
<tr>
<td>Age</td>
<td>-.209</td>
<td>.000</td>
</tr>
<tr>
<td>Student’s intention to leave university study</td>
<td>.087</td>
<td>.042</td>
</tr>
<tr>
<td>Perceived service quality</td>
<td>1.907</td>
<td>.000</td>
</tr>
</tbody>
</table>

87
HA6: After controlling for personal characteristics (age, gender, study level, study grade, and intention to leave university study), the five dimensions of service quality affect the students’ intentions of moving to study at another university.

A hierarchical regression was used to test H6. As shown in table 5, the results of hierarchical regression show that the control variables explain 13.3% of students’ intentions of moving, whereas the dimensions of service quality explain 5.5%. The values of standardized beta (b) show that out of the five dimension of service quality, only Assurance (b= -0.185, p= 0.008) and Empathy (b=0.131, p=0.023) significantly affect students’ intention of moving. The value of Durbin-Watson shows that there is no autocorrelation between residuals.

Table 5. Statistical results of testing H6

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Standardized Coefficients</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Constant)</td>
<td></td>
<td>0.000</td>
</tr>
<tr>
<td>Education attainment</td>
<td>-0.107</td>
<td>-0.118</td>
</tr>
<tr>
<td>Study level</td>
<td>0.007</td>
<td>-0.017</td>
</tr>
<tr>
<td>Gender</td>
<td>0.091</td>
<td>0.089</td>
</tr>
<tr>
<td>Age</td>
<td>-0.264</td>
<td>-0.25</td>
</tr>
<tr>
<td>Student’s intention to leave university study</td>
<td>0.222</td>
<td>0.155</td>
</tr>
<tr>
<td>Reliability</td>
<td>-0.014</td>
<td>0.847</td>
</tr>
<tr>
<td>Tangibility</td>
<td>0.017</td>
<td>0.787</td>
</tr>
<tr>
<td>Responsiveness</td>
<td>0.029</td>
<td>0.620</td>
</tr>
<tr>
<td>Assurance</td>
<td>-0.185</td>
<td>0.008</td>
</tr>
<tr>
<td>Empathy</td>
<td>0.131</td>
<td>0.023</td>
</tr>
<tr>
<td>Change in R2 / Durbin-Watson</td>
<td>0.133</td>
<td>0.056</td>
</tr>
</tbody>
</table>

The results of testing H5 and H6 are support the previous arguments presented in literature review, and consistent with the earlier discussion (Fen & Lian, 2005; Nadiri & Hussain, 2005; Negi, 2009; Alexandris et al., 2002; Ranaweera & Neely, 2003).

5. Conclusions and Implications

Depending on the hypotheses testing of the study results can provide the following conclusions:

The results show that there were no differences in the perceived service quality with respect to gender. This result is applied to the studied services quality dimensions except tangibility, where the male students’ assessment of this dimension is higher than females assessment.

The results showed that the perceived service quality at the university has an impact on behavioral intentions of students regarding the recommendation for new students to study at their university and the intention to move to another university. For new students, tangible dimension is the most influential dimension and followed by the assurance dimension. Other dimensions had no statistically significant effect. As regard the intention to transfer to another university, assurance was the most influential dimension followed by empathy, whereas the rest of the service quality dimensions studied had no statistically significant effect.

5.1 Managerial Implications

As there is a difference between male and female students in their perception to tangibles which is due to variation in interest, where females’ assessment was lower than the males assessment, Therefore, it can be recommended to the university administration to focus on the tangible dimensions of the university services associated with females. The second conclusion confirms a tangibility effect for new students. This emphasizes the importance of focusing on this dimension. The university administration should pay attention to the tangible dimensions of the university and give more attention to the tangible dimension services provided to students at
the university to this dimension of the contribution of the study exhibited in attracting new students. There is a need to give adequate attention by the university administration to assurance because of its impact on attracting new students. In addition to the impact of this dimension in maintaining the current students, there is a need to focus on empathy dimension to maintain the current students.

5.2 Research Limitations and Recommendations

In terms of measurement issues, although the SERVQUAL is a measure used in this study that is recommended for use in the field of Higher Education, but there are other methods that directly measure academic quality which were not used in this study. For future studies, other measurements should be used along with the SERVQUAL, such Owlia and Aspinwall (1996).

References


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