

Effect of Service Quality on Student Satisfaction in Private Universities

Yusuf Rombe M. Allo¹, Melinda Malau²

¹Department of Vocational, Universities Kristen Indonesia, Jakarta, Indonesia

²Department of Economic and Business, Universities Kristen Indonesia, Jakarta, Indonesia

*Corresponding Author: Yusuf Rombe M. Allo

*Faculty of Vocational, Universitas Kristen Indonesia, Jl. Mayjen. Sutoyo No. 2, RT. 09/RW/ 06, Cawang, Kec. Kramat Jati, Jakarta Timur – 13630, Indonesia. Email: yusuf.rombe@uki.ac.id

| ARTICLE INFO | ABSTRACT |
|-----------------------|--|
| Received: 22 Dec 2024 | This study aimed to determine the effect of service, reliability, responsiveness, empathy, assurance, and tangibles in increasing student satisfaction at private universities in the LLDikti-3 region. The data collection method employed a qualitative approach, involving the use of questionnaires to gather responses. Qualitative data was transformed into quantitative data using a Likert scale. In this study, data collection was carried out directly from the number of students at the Universitas Kristen Indonesia. Universitas Sahid and Universitas Tarumanegara. The methods were used: Library Research and. Field Research: This method conducts research by conducting direct surveys to be object to be studied of three private universities in the LLDIKTI-3 region. The data analysis technique in this research is multiple linear regression analysis, where this analysis is used to determine how much influence the change in a variable as on other variables. In this study where the independent variables are, reliability, responsiveness, empathy, assurance, tangible and dependent variable. The results of the study stated that the quality of service provided by the of three private universities in the LLDIKTI-3 region has a significant influence on student satisfaction. Dimensions of service quality such play an important role in shaping student perceptions of university services. |
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1. INTRODUCTION

Universitas Kristen Indonesia consists of 8 faculties and 1 postgraduate program, offering 32 study programs and serving 5,664 actively registered students. While Universitas Sahid consists of 2,354 and Universitas Tarumanegara consists of 9,129. This research will be conducted at the 3 private universities in the Jakarta LLDIKTI-3 working area. which has a large enough population and with strata from Diploma, Undergraduate, and Postgraduate strata.

With the rapid advancement of technology and the emergence of formal and informal educational institutions, the education pattern to the 3 private universities must anticipate changes that will and are happening, especially in terms of service. to the 3 private universities must consider several important things to improve or change the quality of its services to become excellent or extraordinary services. Establishing long-term relationships with students allows institutions to better understand their needs and expectations (Allo, 2017). Companies will face complex problems if their services fail to meet customer expectations. Dissatisfied customers will usually tell others about their bad experiences; this is a big loss for customers. Therefore, every service company must plan, organize, implement, and monitor a quality system to ensure that their services can satisfy customers (Allo, 2020). Service quality can be measured by five dimensions: direct evidence, trust, responsiveness, empathy, assurance, and trust. This study aims to determine how much influence service components have on student satisfaction to the 3 private universities. Service factors include direct evidence, trust, responsiveness, empathy, and reliability. The focus of this study is to evidence for the idea that service quality factors can affect the level of customer satisfaction. Therefore, institutions like this university must conduct periodic and continuous service evaluations to assess student satisfaction. Such information is essential for informing university policies aimed at improving student services in the future.

Service quality consists of things like conformity, suitability, continuous improvement, freedom from damage and defects, meeting customer needs from the beginning and at all times, and appropriate actions that make customers happy (Yapy et al., 2023). Thus, service providers can enhance customer satisfaction by eliminating

negative experiences (Damanik et al., 2024). Furthermore, Sihombing et al. (2023) define service quality as an individual or organizational effort to provide customer satisfaction. This service achieves customer satisfaction through direct interaction (Murti et al., 2022).

Service quality is defined as the level of expected excellence and control over that level of excellence to meet customer expectations. Therefore, two main components that influence service quality are the quality expected by customers and the quality ultimately felt by customers (Hanggara et al., 2022; Lumbantoruan and Malau, 2018). According to Supertini et al. (2020), good service is fast, honest, and attentive. Customers expect efficiency in service processes, fair treatment, and equal treatment without favoritism. Four principles of rational choice are used to build a theory of consumer behavior related to their behavior to maximize satisfaction: 1). Completeness. This principle states that everyone always can determine which state is preferred by the two states. 2). Transitivity is a principle that explains how someone is consistent in determining and deciding their choice when faced with several alternative product choices. 3). Continuity is a principle that explains that if someone says "product A is preferred to product B". 4). The benefits of having quality service can be measured by five dimensions, according to Tjiptono and Chandra (2011): tangibles, reliability, response, assurance, and empathy.

Kaengke et al. (2022) stated that customer satisfaction can be measured by looking at the relationship between the actual performance they feel after use and the previous level of importance. Customer satisfaction is influenced by five factors: physical evidence, trust, empathy, responsiveness, and assurance. In addition, customer satisfaction is influenced simultaneously by these five factors.

a. Reliability

According to Kotler and Keller (2009), reliability is associated with an organization's ability to provide promised services confidently and accurately. Timely, as-promised, and responsible service for customer problems are examples of this reliability. According to research conducted by Apriyani and Sunarti (2017) and Panjaitan and Yuliati (2016), standards increase customer satisfaction.

b. Responsiveness

The ability of company employees to provide services quickly and responsively is known as responsiveness. This dimension shows the attention and speed of employees in handling customer complaints, questions, and requests. Customers will feel dissatisfied if the service is not responsive (Kurniasari and Sugiyanto, 2020).

c. Empathy

Kurniasari and Sugiyanto (2020) found that caring or empathy affects customer satisfaction. The more care a company gives to customers, the higher the customer satisfaction will be.

d. Assurance

Assurance is the knowledge and behavior of employees which fosters customer trust in the provided services. If the company provides security guarantees to customers, they will feel safe and will not hesitate to use their goods and services (Kurniasari and Sugiyanto, 2020).

e. Tangibles

Customer expectations are higher when there is good physical evidence. This allows us to meet customer needs and make them satisfied. Lubis and Andayani (2017) also stated that customer satisfaction increases with physical evidence.

Hypothesis Testing

Sugiyono (2020) stated that the hypothesis serves as a temporary way to solve the problems faced by the research. The formulation of the research problem is written in the form of a sentence statement.

Research Hypothesis

Partial hypothesis between 5 (five) independent variables, against the dependent variable Y = service

1.1. H_{01} : Reliability (X1), there is no significant influence on the dependent variable (Y) of service

H_{a1} : Reliability (X1), has a significant influence on the dependent variable (Y) of service

1.2. H_{02} : Responsiveness (X2), there is no significant influence on the level of service

H_{a2} : Responsiveness (X2), has a significant influence on the dependent variable (Y) of service

1.3. H_{03} : Empathy (X3), there is no significant influence on the dependent variable (Y) of service

H_{a3} : Empathy (X4), has a significant influence on the dependent variable (Y) of service

1.4. H_{04} : Assurance (X4), there is no significant influence on the dependent variable (Y) of service

H_{a4} : Assurance (X4), has a significant influence on the dependent variable (Y) of service

1.5. H_{05} : Tangible (X5), there is no significant influence on the dependent variable (Y) of service

H_{a5} : Tangible (X5), has a significant influence on the dependent variable (Y) of service

1.6. H_{06} : Reliability, Responsiveness, Empathy, Assurance, Tangible (X1, X2, X3, X4, X5) there is no significant influence on the dependent variable (Y) service

H_{a6} : Reliability, Responsiveness, Empathy, Assurance, Tangible (X1, X2, X3, X4, X5) significant influence on the dependent variable (Y) service

2. METHOD

According to Hardani et al. (2020), a research method is a scientific approach used to obtain data or information in its current form with certain goals and benefits. Service quality data on satisfaction is the subject of qualitative research used in this study. Reality (X1), Responsiveness (X2), Empathy (X3), Confidence (X4), Agility (X5), and Student Satisfaction (Y) using a Likert scale.

According to Sujarweni (2014), quantitative research is a type of research that produces results using statistical techniques or quantification (measurement) methods. Sugiyono (2020) explains that quantitative research is a research method based on positivism and is used to investigate certain populations or samples. In Figure 1, the research model is depicted as follows:

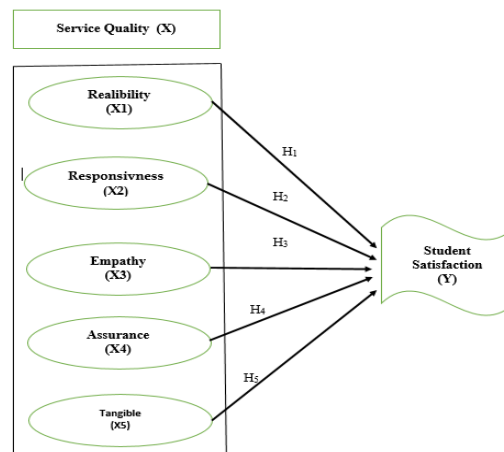


Figure 1. Research Model

Figure 1. Research Model

This study employs descriptive and verification methods. The descriptive approach is used to determine the existence of independent variables. The research object serves as a scientific target for data collection, ensuring the findings are objective, valid, and reliable concerning the variables under study. This study uses the analysis unit from the results of the questionnaire given to by the Universitas Kristen Indonesia, Universitas Sahid and Universitas Tarumanegara campuses.

2.1. Operational Variables

The operational variables that will be used in this study are the independent variables are, relaibility (X1), responsiveness (X2), empathy (X3), assurance (X4), tangible (X5) and dependent variable (Y). Independent Variables (Variables X1, X2, X3, X4 and X5), Sugiyono (2020) states that variables that influence or change other variables are called dependent variables.

2.2. Data Sources and Data Collection Techniques

Secondary data sources consist of data collected from various sources, such as books, magazines, notes, government reports, articles, theory books, magazines, and so on. Sujarweni (2014) states that the primary data collection method involves searching or collecting quantitative data. Meanwhile, the secondary data collection method uses documentation methods through print or electronic media. To collect information, this study utilizes Data Documentation Techniques, Library Research, and Internet Studies.

2.2. Population, Research Sample, and Place and Time of Research

Martono (2015) stated that population is the total number of objects or subjects in an area and meets the requirements related to the researcher's problem. Sugiyono (2020) stated that sample and population are characteristic components. In research, a sample is a portion of the population selected for observation. This study adopts a probability sampling technique, ensuring that each member of the population has an equal chance of being selected. The research was conducted at the by the Universitas Kristen Indonesia, Universitas Sahid and Universitas Tarumanegara .

2.3. Data Collection Methods

This study sent questionnaires to respondents. The research tool used to collect data from respondents was a questionnaire, which is usually referred to as a written interview. The questionnaire consists of a series of questions given to participants either directly or indirectly, either by telephone, computer, face-to-face, or post. The method of collecting data through questionnaires is generally used because it is considered efficient, fast, and cheap.

To find out how much influence the independent variable (X) has on the dependent variable (Y), which is represented in percentage, the coefficient of determination (KD) analysis is used:

.....(1)

$$KD = r^2 \times 100\%$$

(1)

Where:

KD = How far the change in variable Y is used by variable

X R = Square of the correlation coefficient.

2.4. Type of Research

Quantitative methods are used in this study. This method includes multiple linear regression analysis. The Likert scale is used to measure the scale of attitudes and opinions in research and is used to convert qualitative data into quantitative data. This scale is usually found in questionnaires when conducting certain surveys on the subject to be studied. The questions used in research are usually referred to as research variables and are specifically determined. A questionnaire was distributed to students at by the Universitas Kristen Indonesia, Universitas Sahid and Universitas Tarumanegara campuses. These locations were selected because of their diverse student population, which facilitated a more representative sample collection.

2.5. Data Collection Methods

According to Sugiyono (2020), triangulation techniques were used to validate the data for this study. This means that researchers collect data while testing its credibility using various data sources and various data collection methods. Data must be accurate and relevant to obtain information or data to analyze problems and solve problems. The following methods are used: 1. Library Research: This method studies by collecting data from books, lecture materials, and literature and theories related to the problems to be discussed. 2. Field Research: This method entails conducting direct surveys with students of Universitas Kristen Indonesia, Universitas Sahid and Universitas Tarumanegara to gather firsthand data. The data analysis technique used in this study is Multiple Linear Regression analysis, which determines the extent to which changes in independent variables affect the dependent variable. In this study, the independent variables are Reliability (X1), Responsiveness (X2), Empathy (X3), Assurance (X4), Tangible (X5), and Dependent Variable (Variable Y).

3. RESULTS AND DISCUSSION

Improving the quality of service in higher education is one of the important aspects that contribute to the success of academic institutions. Universitas Kristen Indonesia (UKI), Sahid University and Tarumanegara University are private universities in the Jakarta LLDikti-3 area which organize education levels from Diploma, Undergraduate and Postgraduate strata. These three universities continue to strive to provide optimal services for the entire academic community. The sample in this study were active students from three private universities totaling 305 students or 5.38% of the total students, with the following classification. Based on the distribution of respondents from each faculty at Universitas Kristen Indonesia, the following classification:

1. The faculty with the highest number of respondents is the Faculty of Economics and Business, with 88 people or (28.86%). This shows the dominance of student participation from this faculty, which is most likely related to the larger number of active students or enthusiasm for participation in research.
2. The Faculty of Vocational Studies is in second place, with 52 respondents (17.05%). This figure stands out compared to other faculties, indicating that vocational students are quite representative in this study.
3. Other faculties that also have quite high participation are:
 - Faculty of Law: 37 people (12.13%).
 - Faculty of Literature and Languages: 27 people (8.86%).
 - Faculty of Engineering and Faculty of Social and Political Sciences, each with 26 people (8.52%).
4. Faculties with a smaller number of participants, but still significant, are:
 - Faculty of Medicine (S.Ked & Profesi): 24 people (7.87%).
 - Faculty of Teacher Training and Education: 19 people (6.22%).

5. Postgraduate student participation was very small, with only 6 respondents (1.97%), reflecting a more limited number of active postgraduate students.

6. There was no participation from the Student Exchange category (0.00%), possibly due to the absence of active exchange programs during the research period.

3.1. Model Summary

Table 1. Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|--|-------------------|----------|-------------------|----------------------------|
| 1 | ,545 ^a | ,519 | ,009 | ,162 |
| a. Predictors: (Constant), Tangible, Empathy, Reliability, Assurance, Responsiveness | | | | |
| b. Dependent Variable: Satisfaction | | | | |

The results of the study can be described as follows: 1. R-value (Correlation Coefficient): R-value = 0.545 indicates that there is a strong relationship between the independent variables and the dependent variables in the model. 2. R Square value (Coefficient of Determination): R² value = 0.519 indicates that the independent variables in the model are responsible for about 51.9% of the variation in the dependent variable. The last 48.9% is explained by variables not included in this model.

3.2. Coefficients

Table 2. Coefficients

| Model | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|----------------|-----------------------------|------------|---------------------------|--------|------|
| | B | Std. Error | Beta | | |
| 1 (Constant) | 5,128 | 2,002 | | 12,553 | ,000 |
| Reliability | ,089 | ,044 | ,517 | 2,032 | ,043 |
| Responsiveness | ,054 | ,039 | ,514 | 1,388 | ,039 |
| Empathy | ,109 | ,036 | ,188 | 3,068 | ,002 |
| Assurance | ,211 | ,044 | ,291 | 4,772 | ,000 |
| Tangible | ,140 | ,051 | ,204 | ,866 | ,007 |

Here is the interpretation of the regression result table based on the given data:

1. Coefficients for Independent Variables
- 2.

a. Reliability

- Unstandardized Coefficients (B): 0.0890.

Every one-unit increase in reliability increases the dependent variable by 0.089, assuming other variables remain constant.

- t: 2.0322. Sig.: 0.043.

Since $p < 0.05$, this variable is statistically significant.

b. Responsiveness

- Unstandardized Coefficients (B): 0.054.

Every one-unit increase in responsiveness reduces the dependent variable by 0.054.

- t: 1.388. Sig.: 0.039

Since $p < 0.05$, this variable is statistically significant.

c. Empathy

- Unstandardized Coefficients (B): 0.109.

Each one-unit increase in empathy increases the dependent variable by 0.109.

- t: 3.0683 Sig.: 0.002.

Since $p < 0.05$, this variable is statistically significant.

d. Assurance

- Unstandardized Coefficients (B): 0.211.

Each one-unit increase in assurance increases the dependent variable by 0.211.

- t: 4.772 Sig.: 0.0000

Since $p < 0.05$, this variable is statistically significant.

e. Tangible

- Unstandardized Coefficients (B): 0.140.

Each one-unit increase in tangible increases the dependent variable by 0.140.

• t: 0.866 Sig.: 0.007

Since $p < 0.05$, this variable is not statistically significant.

3.3. Tolerance and VIF

Table 3. Tolerance and VIF

| Model | Collinearity Statistics | |
|----------------|-------------------------|-------|
| | Tolerance | VIF |
| 1 (Constant) | | |
| Realibility | ,462 | 1,121 |
| Responsiveness | ,644 | 1,553 |
| Empathy | ,585 | 1,274 |
| Assurance | ,393 | 1,261 |
| Tangible | ,471 | 1,030 |

3.4. Regression

Table 4. Model Summary

| Model | R | R Square | Adjusted Square | RStd. Error of the Estimate |
|-------|------|----------|-----------------|-----------------------------|
| 1 | ,545 | ,521 | ,0093 | ,16296 |

Overall Conclusion

1. Weak Relationship: The R-value of 0.545 indicates a strong relationship between the independent and dependent variables.
2. Limited Explained Variation: The R Square of 52.10% indicates that the model only explains most of the variation in the dependent variable.

3.5. Standardized Coefficients

Table 5. Standardized Coefficients

| Model | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|----------------|-----------------------------|------------|---------------------------|--------|------|
| | B | Std. Error | Beta | | |
| 1 (Constant) | 1,248 | ,735 | | -1,700 | ,040 |
| Realibility | ,0860 | ,016 | -,023 | -,402 | ,029 |
| Responsiveness | ,061 | ,014 | ,000 | -,003 | ,028 |
| Empathy | ,017 | ,013 | -,080 | -1,319 | ,018 |
| Assurance | ,109 | ,016 | ,402 | 6,706 | ,000 |
| Tangible | ,016 | ,019 | -,047 | -,871 | ,038 |

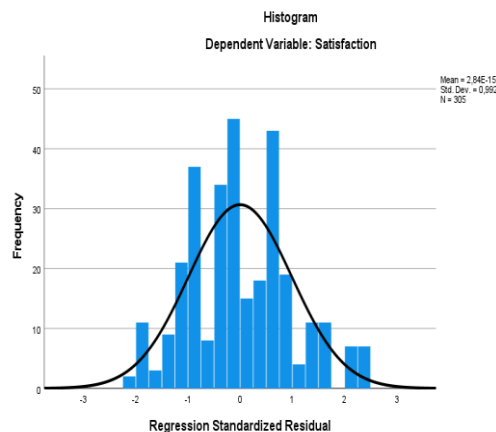
a. Dependent Variable: ABS_RES

1. Significant Variables:

- All independent variables of Reliability, Responsiveness, Empathy, Assurance, and Tangible have a significant effect on the dependent variable ($p < 0.05$). This means that these variables are the main focus of the model.

2. Predictions and residuals follow the assumption of regression normality, which strengthens the validity of the model. A small standard deviation indicates the accuracy and consistency of the model.

Normal Distribution Chart

**Figure 2. Normal Distribution**

The results of the study with the frequency level with the standardised residual histogram graph of the regression using Satisfaction as the dependent variable. The following is the interpretation:

1. Histogram shape:

- This histogram shows the distribution of standardised residuals from the regression model.
- In general, the shape of the histogram resembles a normal distribution (bell-shaped curve), which is consistent with the linear regression assumption that residuals should be normally distributed.

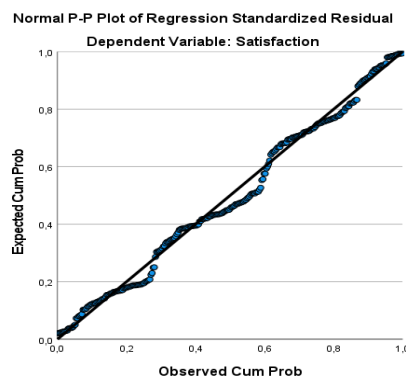
2. N (Number of Samples):

- There are 305 observations in this analysis, which is a large enough sample size to support the validity of the normality assumption.

3. Normality of Residuals:

- The black line curve represents the theoretical normal distribution. Since the histogram (blue bars) follows the pattern of this curve, we can conclude that the residuals have a normal distribution.
- Based on this graph, the assumption of normality in linear regression seems to be fulfilled. In other words, this regression model shows no violation of the normality of the residuals, so the results of the regression analysis can be considered valid in terms of this assumption.

Normality P Plot of regression standardised residuals

**Figure 3. Normality P Plot of regression standardised residuals**

Based on this P-P Plot graph, the regression residuals appear to follow a normal distribution. This means that the regression analysis results meet the assumption of normality, which is one of the important requirements in linear regression. The graph shown is the Normal P-P Plot of the standardised residuals of the regression, with the dependent variable 'Satisfaction'. The following is the interpretation of this graph:

1. Purpose of the Graph:

- The Normal P-P Plot is used to check whether the residuals (prediction errors) in a regression analysis are normally distributed.
- In this graph, the cumulative probability expected if the residuals are normally distributed is plotted against the observed cumulative probability based on the data.

2. Shape and Interpretation:

- If the residuals are normally distributed, the points on the graph will form a straight line along the diagonal (black line).
- In this graph, the points are very close to the diagonal line, indicating that the residual distribution is close to a normal distribution.

3. Deviation:

- There are no major deviations from the diagonal line. This confirms that the assumption of normality of residuals in regression analysis is met.

Scatterplot graph between regression standardised residuals

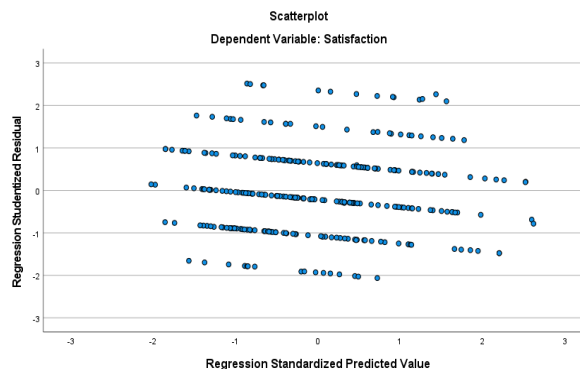


Figure 4 Scatterplot between regression standardised residuals

The graph shown is a scatterplot between the regression standardised residuals and the standardised predicted values. This graph is used to check regression assumptions, particularly homoscedasticity (equality of residual variances). The interpretation follows:

1. Residual Distribution Pattern

- The dots in this scatterplot seem to be evenly spread around the zero horizontal line.
- There is no particular pattern like fanning or curving, which means there is no strong indication of heteroscedasticity (inequality of residual variance).

2. Homoscedasticity

- Homoscedasticity is the assumption that the variance of the residuals is constant across the range of predicted values.
- From this graph, the residuals appear to have a relatively consistent variance across the standardised predicted values. Therefore, the assumption of homoscedasticity is fulfilled.

3. Residual Independence

- This scatterplot also helps to check if there are any systematic patterns in the residuals that could indicate a violation of the independence assumption.
- There is no recurring or structured pattern in the graph, so it can be concluded that the residuals are independent.

4. CONCLUSION, IMPLICATION, LIMITATION AND SUGGESTIONS

4.1. Conclusion

The quality of service provided by Universitas Kristen Indonesia has a significant impact on student satisfaction. Dimensions of service quality such as reliability, responsiveness, empathy, assurance, and tangibles play a crucial role in shaping students' perceptions of university services.

4.2. Significant Variables:

1. All independent variables of Reliability, Responsiveness, Empathy, Assurance, and Tangible have a significant effect on the dependent variable ($p < 0.05$). This means that this variable is the main focus of the model.
2. The model produces consistent predictions with an average residual approaching zero.

4.3. Implications:

1. Theoretical Implications

Service research has been conducted. The importance of service quality in assessing and shaping customer satisfaction in this case is UKI students, especially in the higher education sector. Theories of service quality presented in the literature suggest that service quality is a key factor influencing customer satisfaction.

2. Practical Implications

For university or higher education management, the findings of this study can serve as a guideline for identifying areas that require service improvement. By enhancing its services, universities can strengthen their reputation and competitiveness in the increasingly competitive higher education landscape.

3. Policy Implications

The results of this study can be the basis for developing policies that are more focused on improving the quality of service for students, such as policies to allocate funds to improve facilities or procure the latest technological assistance according to their intended use.

4.4. Research Limitations:

In the implementation of this research, several obstacles and limitations were faced by the research team, including:

1. Respondent Limitations

This research only involved students of Universitas Kristen Indonesia as respondents, so the results cannot be generalized to other universities.

2. Data Collection Method

Data were collected through questionnaires that may be influenced by the subjective perceptions of respondents. This can affect the accuracy of the information received.

3. Time Limitations

Data collection was carried out in a certain period, so the results of the study only reflect the situation at the time the data was collected.

4. Location Limitations

This research was conducted solely within Universitas Kristen Indonesia, excluding students who may have experienced services at other campuses or through online platforms.

4.5. Further Research Implications/Suggestions

1. Improving service quality: Universities should continuously enhance service quality across all aspects to meet student needs and expectations, including reliability, responsiveness, empathy, assurance, and tangibles.

2. Periodic Surveys: Conduct student satisfaction surveys periodically at least once a year to monitor the effectiveness of improving excellent service to determine the stability of satisfaction from each student.

3. Staff Training: Provide service training (service excellence) to all relevant staff to improve responsiveness, empathy, and confidence in serving each student.

4. Modern facilities: Gradually modernize infrastructure to create a beautiful and comfortable learning environment so that students feel that the campus is their second home to study.

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AUTHOR CONTRIBUTION STATEMENT

The creation of this journal article resulted from the collaboration of all authors, with each contributing to various stages of the research and writing process. I, Yusuf Rombe M. Allo, as the lead author, was fully responsible for formulating the research concept, designing the methodology, as well as data collection and analysis. Melinda Malau, as the second author, contributed to the literature review, methodology refinement,

validation of research findings, data interpretation, results visualization, and drafting crucial sections of the manuscript.

Furthermore, all authors actively participated in revising the manuscript to ensure academic rigor, consistency, and compliance with publication standards. They were also involved in final proofreading, technical editing, and improving the manuscript based on reviewers' feedback. The final version of this article has been approved by all authors, reflecting our shared commitment to scholarly integrity and the advancement of knowledge in this field.

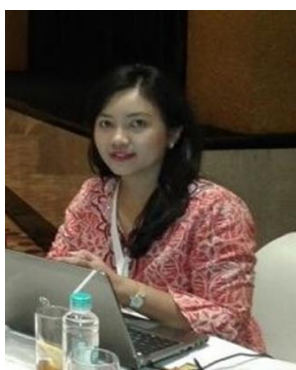
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Yusuf Rombe M. Allo is a former finance professional in the banking industry (1994–2024). During his career, he held strategic positions in various divisions, including Credit, Treasury, Accounting & Planning, and Funding, Product Development & Services. In addition to being a professional banker, he served as a non-permanent practitioner lecturer at The Academy of Banking and Finance (Diploma-3) Universitas Kristen Indonesia (UKI), Jakarta (2004–2017), The Faculty of Economics at Universitas Surapati, Jakarta, and The Faculty of Social & Political Sciences (ISIP) at Universitas Sahid, Jakarta. Since 2017, he has been a permanent lecturer in the Financial Analysis study program at the Vocational Faculty of Universitas Kristen Indonesia (UKI), Jakarta. Education, Bachelor's degree in Socio-Economic Agriculture from Sam Ratulangi University, Manado (1989–1994). Master's degree in Psychometrics from the Faculty of Psychology, Universitas Indonesia, Jakarta (2002–2004). Currently pursuing his Doctoral degree in

Vocational Education at Universitas Negeri Surabaya (2024–present). To support his teaching, he holds professional certifications, including Australian and New Zealand Institute of Insurance and Finance (ANZIIF), Certified Risk Management Professional (CRMP), and - Other relevant professional certifications. Contact: yusuf.rombe@uki.ac.id



Melinda Malau is a lecturer at the Faculty of Economics, Universitas Kristen Indonesia (UKI), Jakarta, Indonesia. She holds a Bachelor's in Economics, a Master's in Management, and a Doctorate in Economics. Her key professional certifications include, Brevet A-B Tax Consultant, Certified in Financial Risk Management (CFRM), Certified in Financial Accounting (CFA). In addition to her role as a permanent lecturer at UKI, she is also a visiting lecturer at: Universitas Trisakti, Jakarta (Bachelor's and Master's in Accounting programs), IPMI International Business School, and Sekolah Tinggi Akuntansi Negara (STAN). Beyond teaching, she actively engages in research, community service, and social organizations. Contact: melinda.malau@uki.ac.id