

Resolving Stakeholder Challenges in the Higher Education System

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Abstract

Purpose: The purpose of this paper is to study how to resolve conflicts among major the stakeholders using the Kano *et al.* (1984) model so as to improve the quality of higher education (HE).

Design/Methodology/Approach: The study presented in this paper was part of an action research study. The empirical material was collected by various methods (interviews and survey) in private and public higher education institutions in Accra, Ghana. The respondents included academic leaders, administrators, teachers and students.

Findings: The study shows that incorporating a view of major stakeholder expectations in a Kano *et al.* (1984) model could help resolve conflicts, and prioritize the stakeholder needs.

Practical Implications: The outcome of this paper could aid higher education administrators (HEAs) improve the existing planning processes and help resolve needs (critical to quality-CTQ) of other major stakeholders with some social benefits.

Originality/Value: This paper expounds on applying the Kano *et al.* (1984) model based on major stakeholder expectations in the higher education system to achieve quality. While a number of papers have been published on the applications of Kano *et al.* (1984) model, scarcely have one used the model to resolve conflicts among major the stakeholders in the HE system. This approach appears to overcome a gap, identified in an earlier research.

Keywords: higher education quality, kano model, stakeholder expectations, stakeholder conflict resolution

Paper type: Research paper

1. Introduction

The author conducted an exit interview with a former rector of a higher education institution (HEI) about some management challenges during his tenure of office. The rector is the Chief Executive Officer of a HEI and a member of the council of governors. The exit interview focused on the belief that stakeholders of HEIs held diverse needs or expectations on quality higher education (Pham and Starkey, 2016). Scholars have argued about the definition of quality in terms of the HEIs (Sunder, 2016; UNESCO, 2014). And higher education administrators (HEAs) face a daunting task with persistent demands for rigorous academic quality standards and the need to meet all the needs or expectations of the major stakeholders. The stakeholder (or customer) satisfaction from the conceptual framework in quality management is the leading criterion for determining the quality of the product/service offered (Ganguli and Roy, 2011; Pizam *et al.* 2016 and Vavra, 1997, 2002). Thus, the HEA is accountable to the major stakeholders to achieve quality.

Previous research shows that as the number of stakeholders' increase, there is a likelihood of disagreement on the definition of quality of education, and miscommunication of expectations and priorities (Kreps, 1990; Finch, 1994; Hatami *et al.* 2016). An effective HEA must build consensus with the major stakeholders to improve the quality of higher education. Nevertheless, difficulties in changing the organizational culture and the absence of tools create substantial obstacles in improving the quality of higher education (Luxford *et al.* 2011). To overcome these difficulties, one needs a tool that supports an understanding of the major stakeholder needs and expectations (Mazur, 2003).

The exit interview with the former rector revealed that HEAs experience challenges in the process of transforming their institutions, with opposing forces and major stakeholders having competing interests (Mabokela, 2002). What are the needs and preferences of the major stakeholders within the HEIs? What tools are available to address these stakeholder needs and preferences? What are some of the challenges in implementing some of these tools? We decided to use an action research to answer these questions.

2. Literature Review

Identification of Stakeholders in the HE System

Freeman (1984) had defined a stakeholder as “any group or individual who can affect or is affected by the achievement of an institution’s purpose”. From this definition a stakeholder can be a single person or a group, who can influence, or is influenced by, the achievement of the institutions’ goals and objectives. Kumar *et al.* (2016) had suggested an approach to identify and classify stakeholders in order to recognize the major stakeholders who affect, or are affected during the achievement of organizational objectives. Kumar *et al.* (2016), proposed four categories of classes of stakeholders: economic, social, environmental and regulatory. For a firm, Friedman and Miles (2006) proposed the major stakeholders as: customers, employees, local communities, suppliers and distributors, shareholders, the media, the public in general, future generations, past generations, academics, competitors, non-governmental organizations, activists, trade unions or trade associations, financiers, government, regulators and policy makers. According to Asiyai (2015), the HE major stakeholders are made up of internal stakeholders such as HE governing council, HE administrators, students, teachers and other staff members. External stakeholders include non-governmental organizations, community based organizations, government oversight commissions,

parents, employers of labor, trade unions, alumni association, industries/firms, the HE competitors, development agencies both local and international, and the society as a whole.

HE Stakeholder Expectations

HE Governing Council

National governments that own public HEIs are represented by a governing council. The HE governing council performs numerous roles including defining strategic vision, policy formulation and monitoring to ensure continuous improvement in the quality of higher education (Asiyai, 2015). The governing council in the private HEIs perform a similar role. Usman (2014), posit that an effective policy making decision requires an enlightened governing council that has a broad view of the impact of higher education on the society, and is cognizant of the strategic direction in terms of quality.

The fundamental purpose of HE policymakers and their expectation is to develop the knowledge and skills students need for professional, technical, and managerial positions. Brint and Clofter (2016), posit that higher education has expanded from an elite to a mass system, and policymakers have taken an interest as well in whether higher education opportunities are accessible to all and fairly distributed. Notwithstanding, Goldin and Katz (2008) had argued that higher education accessibility is an important measure of social mobility to bring greater equality to society. Policymakers have also focused on the volume and quality of higher education's production of basic and applied researchers, that will become the next generation of scholars and scientists (see, Cole, 2009).

Finally, policymakers would want to expand higher education to ensure human capital development to meet the changing occupational needs of an increasingly knowledge-based society. Thus Brint and Clofter (2016), suggest the following questions for assessing the quality of higher education to meet stakeholders' expectations: Are students being prepared adequately for the labor market? Is the system accessible to students from all backgrounds? How large are the gaps in success between students from different backgrounds? Is research productivity high and is it contributing to human well-being? Are HEIs producing well-prepared graduate students? Are the new business methods contributing to greater quality and effectiveness in the allocation of resources? Has the emphasis on interdisciplinary collaboration led to a greater capacity to tackle key national problems? How much are students learning? To what extent are the new instructional practices and technologies contributing to student learning?

Higher Education Administrator (HEA)

Most HEAs focus on global ranking and accreditation institutions to determine the quality of higher education. According to (Sunder 2016), the expectations of HEAs include: increase in enrollment; global ranking; number of research papers published per department; quality of research; HEI maintenance and infrastructure metrics; standard of teaching; Student's absenteeism; and effectiveness of accreditation process among others.

Students

HE institutions' vision and mission statements focus on the students to provide quality education and create an enabling environment for the students to succeed. Several studies have defined students as the primary customers in the HEIs (Gruber *et al.*, 2010; Mergen *et al.*, 2000; Wallace,

1999), and teachers, administrative staff and other employees as a category of customers (Kanji *et al.*, 1999). In one study, Sharabi (2013) categorizes the major stakeholders of HEIs into three tiers – students (customer tier), other employees (boundary tier) and higher education administrators (coordination tier).

The expectation of every student in a higher education institution is to graduate and obtain a decent job to improve his or her earnings inconsonance with the UNESCO's Global Education 2030 Agenda through Sustainable Development Goal 4 (UN Sustainable Development Goals, 2016). Thus, the teaching and learning processes, and the outcomes must promote problem-solving and creative thinking, understanding and respect for human rights, inclusion and equity; all of which are essential to the realization of peace, responsible citizenship and sustainable development. Recent research has identified the expectations of students as: access to e-library or turnaround time for issuing books in the library; turnaround time for admission process; computer systems downtime; number of students placed at corporate jobs; salary range of alumni; residential facilities at hostel rooms and others (Sunder, 2016).

Conflicts in HE Stakeholder Needs or Expectations

Kotler posits that quality science, just like marketing science establishes the need to clearly define and understand the needs of the customer or stakeholder as a prerequisite for any management philosophy (Kotler, 2012). A variety of literature has been published on the definition of quality higher education (HE): as a philosophical concept and elusive (Elassy, 2015); as fitness for purpose (Woodhouse, 2006); as a transformation and adding of value to the stakeholder (Chong, 2014); as a context-relative term such as teaching and learning (Elassy, 2015); and as a stakeholder-relative concept including students, academics, employers, non-academic staff, government, funding agencies, accreditors, and assessors (Burrows and Harvey, 1992). It has been argued that perceptions of quality affect approaches been applied to assure quality, and also different stakeholders think about quality in different ways (Elassy, 2015; Udam and Heidmets, 2013). This has led to conflicts among stakeholders (Pham and Starkey, 2016). Razavi *et al.* (2012) posit that customer or stakeholder satisfaction is the ultimate goal to achieve quality higher education. Hence, stakeholder needs and expectations must be met to achieve quality higher education.

Higher education administrators (HEAs) confront an ever-declining student population and an oversupply of capable higher education service providers, including growth of the distance education market via the internet (Emiliani *et al.* 2005). Most of the degree programs are quickly imitated by competitors, leaving administrators to compete on the basis of price. Thus, HEAs must focus on increase in enrollments and global ranking among others for success (Sunder, 2016). Notwithstanding, increasing enrollment could translate into several low-quality students who might not be able to cope with their studies. A US National Governors Association (1986) study, suggests that international competition and the increasing number of students entering higher education with lower levels of academic preparation heightened worries about the quality of higher education. HEAs by increasing enrollment, may translate into a larger class size which may be in conflict with the teacher's or student's definition of quality. HE teachers may prefer a smaller student per teacher ratio in terms of quality.

Marginson and Van der Wende (2007) had criticized HEAs for focusing on global ranking to achieve quality. They had argued that global rankings by Shanghai Jiao Tong University and the

Times Higher Education (2015) neither provide guidance on the quality of teaching and had recommended a “clean” ranking, transparent, free of self-interest, and methodologically coherent, to improve the quality of higher education (Marginson and Van der Wende, 2007).

HEAs have also been criticized for developing good specialist professionals, and unable to produce well-rounded graduates and, in particular, those who understand business process orientation and cross-functional integration (Kavanagh and Drennan, 2008). HE teachers are promoted based on their research, teaching and service to the community. Employers end up retraining these not 'well rounded and trained graduates' at a higher cost to suit their needs (Green, 1994). The nature of HE teaching will need to become not only more varied and versatile, but will also have to be of a very high quality to exceed stakeholder expectations.

Research suggests that despite the calls for accountability and reform in higher education, there is insufficient stakeholder dialogue and consensus (Bogue and Hall, 2012; Morse, 2014; Zemsky, 2009). Although stakeholders agree that higher education is in need of reform, there is insufficient knowledge about the extent to which major stakeholders align or differ on various characteristics of accountability (Bogue and Hall, 2012). From these perspectives, the needs and expectations of the major stakeholders (HE governing council, HE administrators, students, and teachers) should create the needed environment for institutional change and improvement (Hess and Benjamin, 2015).

Brint and Clofter, (2016) had suggested that most studies are principally interested how HEIs work and what forces in their environments lead them to change. However, most policymakers do not want simply to understand HEI systems, but rather to know how to make them work better than they currently do to achieve quality higher education. HE institutions must focus on the needs or expectations of its stakeholders to achieve quality higher education. Consequently, the goals, objectives, and focus of some of the major stakeholders in HEIs that are conflicting must be resolved. The aim of this study is to identify a tool to resolve some of these conflicts within stakeholder expectations. To achieve this aim, we investigate the question to what extent do HEAs meet the major stakeholders' expectations?

Tools Available for Managing Stakeholder Conflicts and Challenges in Implementation

In this competitive HE environment, the survival of the institution depends on the ability to meet and exceed stakeholder expectations. Hence, the HEA must identify new tools, technologies and systems to improve the quality of higher education by translating the voice of the customer (stakeholder expectation) into critical to quality (CTQs) characteristics.

Studies have found that that HE stakeholders hold diverse perspectives on quality and are reluctant to use the results of accreditation evaluation reports because of conflicts of interest (Fenwick, 2016; Pham and Starkey, 2016; Miller, 2016). Challenges in implementing the quality initiatives to resolve some of these conflicts include: resistance to change by administrators, teachers and staff members; lack of time; short-term thinking; stuck on tradition; “what is in it for me” mentality and lack of support from team members (Akao, 1990; Aly and Akpovi, 2001). According to Vazzana *et al.* (1997), quality initiatives are widely practiced in HEIs, for example, there is some criteria for HEIs to fulfil in the Malcolm Baldrige National Quality Award. Though, Karapetrovic *et al.* (1999) indicated that without methodical approach to improving quality, the initiatives to

improve higher education may be doomed for failure. Venkatraman (2007) posits that in HEIs, service quality deals with the students, the time of delivery of programs, the intangibility (for example, the learning process being subtle to be measured) and the difficulty in measuring successful output and productivity in quality. However, Hwarng and Teo (2001) writes that a critical step in implementing quality in HE is to identify the current and potential stakeholders. Thus, stakeholders' focus must provide direction for higher education quality improvement initiatives.

Other studies by measuring the quality of higher education have used the SERVQUAL (Parasuraman *et al.* 1985; Tuan, 2012), and the HEdPERF (Abdullah, 2006) and HiEdQual (Annamdevula and Bellamkonda, 2012) models. Notwithstanding, a long-term Harvard study found that, institutions that blindly fulfil stakeholder's expectations, did less well than institutions that balanced the interests of all their stakeholders (Caulkin and Black, 1994; Kotter and Heskett, 1992). Nonetheless, Abidin (2015) had argued that the differences in SERVQUAL, HEdPERF and HiEdQual models show that service quality varies, depending on the research objective and the stakeholder group, and therefore, unsuitable for our purpose in this study. Hence, the tool must help the HEA improve the existing processes by balancing the interests of all their stakeholders, that will ensure the maximum results in quality higher education.

The Quality Function Deployment (QFD) (Akao, 1997) and the Kano *et al.* (1984) model are tools that have been used extensively to identify and translate the voice of customer (critical to quality - CTQ) or stakeholder expectations to improve quality (Al-Bashir, 2016; Tetteh, 2015). Previous research acknowledges the risk of the HEA solely relying on his/her expectations to achieve quality higher education (Keller *et al.* 2014). Although QFD (Yeh, 2010) and SERVQUAL (Sulisworo and Maniquiz, 2012) methodologies has been used to improve quality, the Kano *et al.* (1984) model has been shown to be more beneficial (Paraschivescu and Cotirlet, 2012; Sulisworo and Maniquiz, 2012). Also, Lo *et al.* (2016) write, that it is a challenge for traditional QFD to accurately recognize customer expectations. The Kano *et al.* (1984) model, and its related theory and methodology, is well established and has been applied extensively in the field of education (Tetteh, 2015; Witell *et al.* 2013). The Kano *et al.* (1984) model has stated that blindly fulfilling stakeholder expectations has risk associated with it if the product or service provider is not aware that there are different types of stakeholder requirements. Lately, research has been published on practical applications of the Kano *et al.* (1984) model in translating the voice of customer to improve quality ((Mitrabasu, 2013; Paraschivescu and Cotirlet, 2012; Sulisworo and Maniquiz, 2012). While a number of papers has been published on the applications of the Kano *et al.* (1984) model, scarcely have one used the model to resolve conflicts among major stakeholders in the HE system (see Chang and Chang, 2012; Gustavsson *et al.* 2016; Keller *et al.* 2014; Shahin *et al.* 2017). The Kano *et al.* (1984) model is useful for incorporating stakeholder expectations into the design of processes (Mikulic and Prebezac, 2011). As also concluded by Walden (1993), the Kano *et al.* (1984) model analysis has the potential to increase confidence in the analysis of stakeholder expectations. Thus, by choosing the Kano *et al.* (1984) model from the review, we will overcome the gap in terms of focusing on a sole stakeholder, and blindly fulfilling stakeholder expectations.

3. Method

Kano et al. (1984) Model

The Kano *et al.* (1984) model is employed to identify the stakeholder expectations that are critical to quality (CTQs) and the functional requirements (FR) to help improve the quality of higher education. To that end, Sunder (2016), proposed stakeholder expectations (CTQ) that are used to generate what the stakeholder needs or expects in this study. The traditional Kano *et al.* (1984) model is an approximate estimate of the stakeholder's expectation which only allows attributes of qualitative assessment of the expectations (Wassenaar *et al.* 2005). We employed some quantitative measures to assign some scales in terms of the levels of stakeholder satisfaction or dissatisfaction (Berger *et al.* 1993; Matzler and Hinterhuber, 1998).

Based on the Kano *et al.* (1984) model, the FR of each variable were initially classified (using the functional and dysfunctional form of Kano *et al.* (1984) questions) as *Exciter* or *Attractive* (A), *Must-be* (M), *One-dimensional* (O), and *Indifferent* (I) as depicted in Table 1.

Table 1. Kano evaluation table

Source: (Kano *et al.* 1984).

		Dysfunctional Questions				
		Like it that way	Must be that way	I am neutral	Can live with it that way	Dislike it that way
Functional Question	Like it that way	Q	E	E	E	O
	Must be that way	R	I	I	I	M
	I am neutral	R	I	I	I	M
	Can live with it that way	R	I	I	I	M
	Dislike it that way	R	R	R	R	Q

E: Exciter or Attractive, O: One-dimensional, M: Must be, I: Indifferent, R: Reverse, Q: Questionable.

For each variable, a contingency output was generated (between functional and dysfunctional questions) and the frequencies of respondents summed according to the classification structure (where the letters represent the Kano *et al.* (1984) stakeholder groups). A functional question captures the stakeholders' response if an expectation has a certain attribute, and a dysfunctional form question if an expectation does not have that attribute. A Questionable (Q) category will not be included in the averages, and a Reverse (R) category can be transformed out of the category by reversing the sense of functional and dysfunctional of questions (Berger *et al.* 1993). To fully exploit these insights, all the needs and the expectations of the major stakeholders must be analyzed and ranked to: *Dissatisfier* - Must be; *Satisfier* – More is better; and *Exciter* – Latent Need by using the Kano *et al.* (1984) model (Tetteh, 2015).

Following Xu *et al.* (2009), this study adopts a scoring scheme that defines stakeholder's satisfaction (using functional questions) and dissatisfaction (using dysfunctional questions) as depicted in Table 2 below. The scale is designed to be asymmetric because positive answers are considered to be stronger responses than negative ones (Tetteh, 2015; Xu *et al.* 2009).

Table 2. Scores for functional/dysfunctional features

Source: (Xu et al. 2009).

	Functional Form questions	Dysfunctional Form questions
Like it that way	1	-0.5
Must be that way	0.5	-0.25
I am neutral	0	0
Can live with it that way	-0.25	0.5
Dislike it that way	-0.5	1

Participants

This study settled on a cross-sectional survey design to examine the expectations of the major stakeholders (academic leaders, administrators, teachers and students) to achieve quality higher education leading to the formation of the four groups (Creswell, 2012). This categorization was done through a brainstorming session with the academic leaders and administrators, as in Emery and Tian (2002) study. To reduce coverage and sampling error, a list of the target population (sometimes called the sampling frame), was obtained from five higher education institutions (public and private) in Accra, Ghana and they were randomly selected to become participants (Salant and Dillman, 1994). HEAs participated in this study, as their positions placed them in a position likely to provide rich sources of information on how quality of higher education was perceived. This aimed at ensuring “the maximum variation sampling” (Patton, 2002; Pham and Starkey, 2016). Two hundred (200) participants were randomly selected after a passive consent procedure was employed. None of the participants were pressured to participate, and all were assured that it was a voluntary activity. The major stakeholders were represented by 20 (10 %) academic leaders, 38 (19%) administrators, 37 (19%) teachers and 105 (53 %) students. Out of the 200 participants, 106 (53%) were males and 94 (47%) were females.

The author acted as an action researcher, conducting research within the Ghanaian higher education institutions (Coghlan and Brannick, 2008). Two sources were used for data collection, first, an email of which 113 responses were used. Second, face to face interviews which lasted about 45 minutes were recorded and transcribed. The use of multiple data sources could be considered triangulation, which serves to strengthen the findings (Bryman and Bell, 2007). A reflective dialogue between the researcher and the stakeholders was used to sort out the expectations, which increased the understanding, credibility, and internal validity of stakeholder expectations. (Eisenhardt, 1989).

The data for this research were collected through participative observations and interviews with the major stakeholders. An overlap between data collection and data analysis allowed the researchers to iteratively collect and analyze data (Coghlan and Brannick, 2008; Meredith, 1998). A qualitative content analysis (Flick, 2014) was carried out focusing on practical implications of the Kano *et al.* (1984) model and the relation to different stakeholder expectations to improve the quality of higher education. Thus, the data were related to the theoretical framework through a second-order analysis of the empirical material (Gustavsson *et al.* 2016; Reason and Bradbury, 2009; Tetteh, 2015).

Instrument

The Sunder (2016) and Kano *et al.* (1984) questionnaire were slightly modified to fit the present study and measure the major stakeholder expectations as depicted in Table 3 in the Appendix.

For each question, respondents could then answer in five different ways following a 5-point Likert scale (Likert 1932): (1) I like it that way, (2) It must be that way, (3) I am neutral, (4) I can live with it that way, and (5) I dislike it that way. The categorization was done through a brainstorming session with the academic leaders and administrators, as in Emery and Tian (2002) study. The attributes were then placed in the Kano *et al.* (1984) model based on their influence on stakeholder satisfaction.

Study Design Relevance - Reliability and Validity of Outcome Measures

The reliability of a scale indicates how the design is free from random error. The aspect of reliability assesses the internal consistency of the major stakeholder expectations. A total of 88 items were selected for identifying the major stakeholder expectations. In determining the reliability of the instrument, a general rule is that the indicator should have a Cronbach's alpha of 0.60 or more (Nunnally, 1978). The Cronbach's alpha for the 88 items were 0.891 as depicted in Table 4 in the Appendix, indicating that the instrument was reliable and suitable for analysis.

Table 4. Reliability Statistics

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.891	.842	88

Summary Item Statistics							
	Mean	Minimum	Maximum	Range	Maximum / Minimum	Variance	N of Items
Item Means	4.693	1.855	7.510	5.655	4.049	3.669	88
Item Variances	1.935	.462	4.635	4.173	10.040	1.783	88
Inter-Item Correlations	.002	-.763	.814	1.577	-1.067	.306	88

ANOVA						
		Sum of Squares	df	Mean Square	F	Sig
Between People		1304.591	199	6.556		
	Between Items	63836.979	87	733.758	389.981	.000
Within People	Residual	32574.839	17313	1.882		
	Total	96411.818	17400	5.541		
Total		97716.409	17599	5.552		

Grand Mean = 4.69

Hotelling's T-Squared Test

Hotelling's T-Squared	F	df1	df2	Sig
93985.893	613.435	87	113	.000

Based on the findings of Tetteh (2015), the level of importance of the functional requirements (FR) were determined by the application of factor analysis (principal component technique). The use of factor analysis method demands the existence of correlation among the variables of interest and also the adequacy of the sample in order for the factors formed to account for higher variation in the variables. To achieve construct validity, the data were examined using principal component analysis as the extraction technique and the varimax as the method of rotation. With a cutoff loading of 0.50 and an Eigen value greater than 1.0, none of the items were dropped. Our assumption of using the factor analysis method conformed to McNaught *et al.* (2007) testing the validity of the Recovery Assessment Scale (RAS).

The high statistics of Bartlett's Test of Sphericity (18679.340) with the corresponding small significant value (0.0005) confirmed the existence of strong correlation among the responses and the Kaiser-Meyer-Olkin (KMO) statistics of 0.967 which is greater than 0.500 indicated a strong sampling adequacy and hence reliability of the data (sample) for the factor analysis technique as depicted in Table 5 below.

Table 5. KMO and Bartlett's Test

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.967
Bartlett's Test of Sphericity	Approx. Chi-Square	18679.340
	df	4095
	Sig.	0.000

5. Results

The focus of this paper was to resolve the conflicts with the expectations of the major stakeholders in the higher education institutions using the Kano *et al.* (1984) model. The Kano indices were computed to obtain the configuration index for each of the major stakeholder expectations as *Exciter or Attractive*, *Must-be*, *One-dimensional*, or *Indifferent* based on a model proposed by Berger *et al.*, (1993) as depicted in Figure 1. Our results indicated: *Exciter or Attractive* – 18. Student's absenteeism; *Must-be*: - 3. Turnaround time for admission process, 7. Number of students placed at corporate jobs, 8. Salary range of passed alumni from the university, 13. Increase in research papers published per department; *One-dimensional*- 11. Increase in students' enrollment, 14. Quality of research, 15. University maintenance culture, 16. Food wastage in university cafeteria, 17. Standard of teaching, 20. Paper consumption in the university, 21. Accreditation Process, 22. Accreditation would ensure quality; *and Indifferent*- 1. Pass percentage of students in a class, 2. Turnaround time for issuing books in the library, 4. Overall student satisfaction score, 5. Computer laboratory equipment availability, 6. Computer systems downtime at the university, 9. Residential facilities at hostel rooms, 10. Facilities for gymnasium and sports center, 12. University ranking, 19. Accuracy of medical prescriptions at university's clinic.

Figure 1. Stakeholder Expectations with Kano et al. 1984 Indices

Functional (Satisfaction)	1	<u>Attractive or Exciter</u> - 18. Student's absenteeism	<u>One-Dimensional</u>- 11. Increase in students' enrollment; 14. Quality of research; 15. University maintenance culture; 16. Food wastage in University Cafeteria; 17. Standard of teaching; 20. Paper consumption in the university; 21. Accreditation Process; 22. Accreditation would ensure quality.
	0.5	<u>Indifference</u>- 1. Pass percentage of students; 2. Turnaround time in the library; 4. Overall student satisfaction score; 5. Laboratory equipment availability; 6. Computer systems downtime; 9. Residential facilities; 12. University ranking; 19. Accuracy of medical prescriptions at university's clinic.	<u>Must Be</u>- 3. Turnaround time for admission; 7. Number of students placed at jobs; 8. Salary range of alumni from the University; 13. Number of research papers published.
	0	0.5	1
	Dysfunctional (Dissatisfaction)		

By comparing the prioritized stakeholders' expectations into *Exciter or Attractive*, *Must-be*, *One-dimensional*, or *Indifferent* using the Kano *et al.* (1984) model, the HEA could intuitively take a decision as shown in Figure 1 (Jeon *et al.* 2012). The results indicate that strategies to minimize student absenteeism would excite students, while these *must-be* qualities must be taken into consideration to avoid dissatisfaction of the students.

6. Discussion

The uniqueness of our study lies in the application of the Kano *et al.* (1984) to resolve conflicts by incorporating a perspective of understanding the criticality of needs or expectations from the major stakeholders such as academic leaders, administrators, teachers and students (Bate and Robert, 2007; Jeon *et al.* 2012; Lengnick-Hall, 1995). The various roles of a student, for example, treated as a customer (Gruber *et al.*, 2010) in the higher education process, would ensure quality of higher education and improve institutions.

Our study supports what is argued by Sulisworo and Maniquiz (2012), that the Kano *et al.* (1984) model is a practical tool for the quality of higher education to classify different stakeholder expectations, monitor their expectations and prioritize the various action plans required to improve the system. As an example, in the Kano *et al.* (1984) model, both the 'spoken' (one-dimensional) and 'unspoken' (attractive and must-be) expectations of the stakeholders are visualized. However, the same methods cannot be used to collect data on spoken and unspoken expectations. Direct methods like interviews can aid in identifying spoken expectations, whereas indirect methods like

observations are necessary to identify unspoken expectations. Earlier studies (Keller *et al.* 2014; Paraschivescu and Cotirlet, 2012), had indicated a challenge in using only stakeholder input from surveys or interviews when collecting expectations, as the unspoken expectations will be missing.

This study confirms this challenge, but also points to a way of overcoming it. That is, the challenge can be overcome by not only collecting stakeholder input through methods such as surveys, but also allowing HE internal and external stakeholders to provide input (Gustavsson *et al.* 2016; Lengnick-Hall, 1995). Hence, it is not only critical to use a variety of methods to collect stakeholder's expectations, but it is also critical to involve a variety of respondent groups providing an input on expectations related to the various stakeholder roles.

7. Theoretical and Practical Implications

This study suggests that HEAs must concentrate on strategies that reduce or minimize student absenteeism as an *exciter* or *attractive quality*, rather than global ranking which is an *indifferent* quality (Balfanz and Byrnes, 2013). Attractive quality is an attribute that provides satisfaction when achieved fully, but do not cause dissatisfaction when not fulfilled. On the other hand, indifferent attribute refers to aspects that are neither good nor bad, and they do not result in either customer satisfaction or customer dissatisfaction.

This study confirms Kano *et al.* (1984) conclusion that blindly fulfilling stakeholder/customer expectations had risks such as providing superfluous quality. That is wowing the stakeholder/customer in one area, and driving them to competitors in another; and focusing only on what stakeholder/customer say, and not what they think (Kano *et al.* 1984; Woodham *et al.* 2017).

8. Conclusions

The results of this study found student absenteeism as an attractive quality. Indeed, out of 15 different types of reasons for student absenteeism from an earlier study, factors relating to courses and teachers were found to be the least significant (Longhurst, 1999). Consequently, students just go through the motions because of the dearth of reasonably attractive jobs available to them, and parental and peer group pressure (UN Sustainable Development Goals, 2016).

The main contribution of this study is to resolve the major stakeholder's conflicts in the HEIs using the Kano *et al.* (1984) model. Looking at the various roles is a way to realize the necessity of capturing input from various stakeholders (such as academic leaders, administrators, teachers and students). Further, it is important to apply various methods in collecting data when assessing stakeholder expectations, as some of the expectations are explicit (expressed or spoken) and implicit (implied or unspoken). This study contributes to knowledge on how to combine the stakeholder expectations to resolve conflicts using the Kano *et al.* (1984) model.

Limitations and Directions for Further Research

There are a number of limitations to our study. This study has drawn conclusion based on responses from stakeholders in private and public higher institutions in Accra, Ghana; hence, the outcome cannot be generalized. Notwithstanding, the findings could provide valuable insights to HEAs in HEIs.

Further studies, could address how to initially capture stakeholder expectation as an input before becoming a stakeholder. In order to capture these types of expectations, data collection from other respondent groups, such as external stakeholder (national university commission (NUC), non-governmental organizations, community based organizations, parents, employers of labor, trade unions, alumni association, industries/firms, might be a way forward in future research.

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APPENDIX

Table 3. Sunder (2016) Questionnaire

Stakeholder Expectation ("WHAT") How do you feel if...	Importance 9-point Likert scale (1=Never Important; 2=Not very Important; 3=Occasionally Important; 4=Sometimes Important; 5=Fairly many times Important; 6=Quite often Important; 7=Very often Important; 8=Continually Important; 9=Always Important.	Choose either (1), (2), (3), (4) or (5) only				
		I like it that way	It must be that way	I am neutral	I can live with it that way	I dislike it that way
1a. Pass percentage of students in a class is high		①	②	③	④	⑤
1b. Pass percentage of students in a class is not high		①	②	③	④	⑤
2a. Turnaround time for issuing books in the library is high		①	②	③	④	⑤
2b. Turnaround time for issuing books in the library is not high		①	②	③	④	⑤
3a. Turnaround time for admission process is high		①	②	③	④	⑤
3b. Turnaround time for admission process is not high		①	②	③	④	⑤
4a. Overall student satisfaction score is high		①	②	③	④	⑤
4b. Overall student satisfaction score is not high		①	②	③	④	⑤
5a. Computer Laboratory equipment availability is high.		①	②	③	④	⑤
5b. Computer Laboratory equipment availability is not high.		①	②	③	④	⑤
6a. Computer systems downtime at the university is high		①	②	③	④	⑤
6b. Computer systems downtime at the university is not high		①	②	③	④	⑤
7a. Number of students placed at corporate jobs is high		①	②	③	④	⑤
7b. Number of students placed at corporate jobs is not high		①	②	③	④	⑤
8a. Salary range of passed students from the University is high		①	②	③	④	⑤
8b. Salary range of passed students from the University is not high		①	②	③	④	⑤
9a. Residential facilities at hostel rooms is high		①	②	③	④	⑤
9b. Residential facilities at hostel rooms is not high		①	②	③	④	⑤
10a. There are facilities for gymnasium and sports center		①	②	③	④	⑤
10b. There are no facilities for gymnasium and sports center		①	②	③	④	⑤
11a. There are increase in students' enrollment;		①	②	③	④	⑤
11b. There are no increase in students' enrollment;		①	②	③	④	⑤
12a. There is an improvement in university ranking;		①	②	③	④	⑤
12b. There is no improvement in university ranking;		①	②	③	④	⑤
13a. There is an increase in research papers published per department;		①	②	③	④	⑤
13b. There is no increase in research papers published per department;		①	②	③	④	⑤
14a. Quality of research is high;		①	②	③	④	⑤
14b. Quality of research is not high;		①	②	③	④	⑤
15a. University maintenance culture is high;		①	②	③	④	⑤
15b. University maintenance culture is not high;		①	②	③	④	⑤
16a. Food wastage in University cafeteria is high		①	②	③	④	⑤
16b. Food wastage in University cafeteria is not high		①	②	③	④	⑤
17a. Standard of teaching is high;		①	②	③	④	⑤
17b. Standard of teaching is not high;		①	②	③	④	⑤
18a. Student's absenteeism is high;		①	②	③	④	⑤
18b. Student's absenteeism is not high;		①	②	③	④	⑤
19a. Accuracy of medical prescriptions at University's clinic is high;		①	②	③	④	⑤
19b. Accuracy of medical prescriptions at University's clinic is high;		①	②	③	④	⑤
20a. Paper consumption in the university is high;		①	②	③	④	⑤
20b. Paper consumption in the university is not high;		①	②	③	④	⑤
21a. Accreditation process is efficient;		①	②	③	④	⑤
21b. Accreditation process is not efficient;		①	②	③	④	⑤
22a. Accreditation would ensure quality;		①	②	③	④	⑤
22b. Accreditation would not ensure quality;		①	②	③	④	⑤