Quality Issues in Higher Education: A Multicriteria Framework of Satisfaction Measures

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Received May 9th, 2011; revised June 2nd, 2011; accepted June 16th, 2011.

Higher education attributes significant interest to student satisfaction because of its potential impact on the quality dimensions of the offered services. This is illustrated from the large number of studies that have shown a moderate to strong relationship between these two concepts. This paper provides a detailed analysis of a student satisfaction survey conducted at the Health Care Management Department of the Technological Education Institute of Athens. The analysis was based on a multi-criteria preference disaggregation method (MUSA). Results are focused on the evaluation of student choices, while significant findings of the applied methodology constitute the determination of strong and weak points of the educational component’s preferences that form important suggestions for the improvement of the satisfaction level and the quality characteristics of the correspondent services.

Keywords: Higher Education, Quality Management, Multi-Criteria Analysis

Introduction

In recent years many studies in the area of quality in higher education have been carried out indicating thus the significant importance of the relevant concept. Although quality assurance schemes in European Higher Education were first introduced in France (1984), the UK (1985) and the Netherlands (1985) (Westerbeijden et al., 2007) it was first the Sorbonne declaration (1998) and then the Bologna declaration (June 1999) that addressed this issue at an international level by promoting the development of a coherent and cohesive European Higher Education Area by 2010. Moreover in the Bergen ministerial meeting (Bergen, 2005) the standards and guidelines for quality assurance in the European Higher Education Area were adopted as proposed by the European Association for Quality Assurance in Higher Education (ENQA). Finally in the Louvain meeting (April 2009) the importance of quality assurance in all aspects of higher education was acknowledged by the European ministers. In all the above meetings the need to enhance quality in European Higher Education at institutional and national levels was stressed, driving thus universities around Europe to adopt external evaluation systems and also to apply for an ISO9001:2000 certificate as a part of their internal quality management system (Hutyra, 2005). In Greece however, such a system was introduced around 2007 as a permanent procedure for improving the quality and quality assurance in higher education institutions.

Defining quality in higher education engages many difficulties due to its complex character. Harvey and Green (1993) proposed a structural development of quality consisting of five dimensions i.e.: Quality as exceptional (quality is considered in terms of excellence), Quality as perfection or consistency (the processes and specifications are aimed to be perfectly met), Quality as fitness for purpose (meeting customer requirements), Quality as value for money (quality is related to costs), Quality as transformation (the process should produce a fundamental change that includes empowerment to take action and enhancement of customer satisfaction). Harvey and Knight (1996) suggested that Quality as transformation can incorporate the other dimensions to some extent.

Tam (2001), commented that quality is a highly contested concept and has multiple meanings linked to how higher education is perceived (Harvey & Williams, 2010).

Shrikantan and Dalrymple (2003) presented a correspondence between the four stakeholders of quality in Harvey and Green’s dimensions as follows:

1) Providers (funding bodies and community at large). Quality is interpreted as value for money, 2) Users of products (current and prospective students). Quality is interpreted in terms of excellence, 3) Users of outputs (i.e. employers). Quality is interpreted as fitness for purpose, 4) The employees of the sector (academics and administrators). Quality is interpreted as consistency.

Van Kemenade et al. (2008) described quality with four constituents: object, standard, subject, value and elaborates on four value systems on quality and quality management: control, continuous improvement, commitment and breakthrough.

Generally, quality in services is closely linked to customer’s satisfaction. Athiyaman (1997) linked student satisfaction with service quality and concluded that perceived quality depends on satisfaction. Shemwell et al. (1998) argues that in today’s world of intense competition, the key to sustainable competitive advantage lies in delivering high quality service that will result in satisfied customers. Martensen et al. (2000) applied the European Customer Satisfaction Index to measure student’s perceived quality and satisfaction. Sureshchandar et al. (2002) investigated the link between service quality and customer satisfaction in terms of the same operationalized factors and observed that these two are closely related which means that an increase in one is likely to lead to a rise in the other. Elliot and
Shin (2002) discussed the positive effect that student’s satisfaction plays on student’s motivation, student’s retention and recruiting efforts. Bigne et al. (2003) found that overall service quality has a significant relationship with satisfaction while Ham and Hayduk (2003) have confirmed that there is a positive correlation between perception of service quality and student satisfaction. Suhre et al. (2007) explored the impact of degree program satisfaction on academic accomplishment and dropout and observed that student accomplishment depends on degree program satisfaction and differences in academic ability. Lee and Tai (2008) investigated critical factors that affect student’s satisfaction in higher education and their impacts on the management of higher education organizations. Kim and Richarme (2009) argue that if firms with high customer satisfaction the improvement of service quality will result in positive financial implications. Tsirintani et al. (2010) have proved an asymmetric relationship between quality and satisfaction in health services using the Kano model.

A straightforward result emanating from the literature mentioned above is that quality in higher education and student satisfaction are closely related concepts.

This study attempts to further strengthen the former statement by estimating the satisfaction of a student sample that attend the Health Care Management Department of the Technological Educational Institute of Athens and provide insights into the education services behavior of the subject group and the student population that the group may represent. To address this issue a multi-criteria methodology is employed (following a parallel rational to Martensen et al.) connecting quality characteristics of the education services to student satisfaction which implies that global student satisfaction is composed of several criteria and sub-criteria representing quality attributes of the offered services (study program, teaching, staff, equipment etc). The proposed multi-criteria model links student satisfaction to its constituent quality components through significant indices and provides the actions that should be undertaken in order to improve the overall performance in these components. A study with this purpose is rather important since it gives grounds for quality management improvement in higher education services.

Under this context quality in this paper is seen as transformation, adapting Harvey and Green’s way of thinking of quality, which suggests that the process should bring a qualitative change.

Our attention in measuring satisfaction is focused to students since they constitute the major stakeholder in education (without students there is no education business) which of course does not imply that we neglect the other groups involved in the education chain.

Moreover the purpose of conducting such a research was actually deemed necessary for the Department since, further to the reasons stated earlier, it would work complementary to the external evaluation that Health Care Management Department has undergone since 2009 (and is still running) from the Hellenic Quality Assurance Agency for Higher Education.

Health Care Management Department was founded in 1983, as one of the five Departments that constitute the faculty of Management and Economics of the Technological Educational Institute of Athens, and today provides services to 885 active students with 10 full time academic staff and 35 part time academic staff while its program study comprises 8 full time attendance semesters.

The rest of the paper is organized as follows: section 2 provides the research methodology which contains the planning of the research and the scientific methodology to estimate satisfaction, section 3 presents the results and section 4 summarizes the conclusions and the deduced suggestions.

Methodology

This section consists of two parts. The aim of the first part is to design and conduct the research at the Health Care Management Department while in the second part a multi-criteria method is used to obtain the student’s satisfaction degrees and provide the corresponding analysis and actions.

Research Planning

The research was conducted at the Health Care Management Department and reflects the satisfaction levels of its students for the spring semester 2010. Particularly the planning of the research was based on the following steps: questionnaire development and research conduction, preliminary data analysis, elaboration and results.

The first step comprises the design and the development of a questionnaire as well as the accomplishment of the research. Student questionnaires become one of the most popular methods worldwide to imprint the quality of education (Hendry & Dean, 2002). Significant component in this step is the determination of the satisfaction criteria in other words the dimensions that constitute the overall satisfaction. Sureshchandar et al. (2002) suggest that customer satisfaction is likely to be multidimensional in nature and should be operationalized along five factors i.e. core service (the content of a service), human elements of service, systematization of service delivery and social responsibility. Moreover Martensen et al. (2000) in their adaptation of the ECSI approach to student satisfaction acknowledge the following latent variables to be used in the student satisfaction model: institution image, student expectations, perceived quality of non-human elements, perceived quality of human elements, perceived value, student satisfaction and student loyalty. Lagrosen et al. (2004) examining the dimensions of quality in higher education identified characteristics like course offered, teaching practices, campus facilities, computer facilities, corporate collaboration, information and responsiveness etc.

Consequently student satisfaction can be obtained at various levels of an education establishment and therefore taking into consideration the former views the criteria selected to form the overall satisfaction are introduced in the following table, where each criterion is decomposed in several sub-criteria:

Based on Table 1, a questionnaire was designed with 31 questions (answered in the 5-pt Likert scale) capturing all the dimensions that constitute the overall student satisfaction. The completion of the questionnaires was obtained by a sample of students in all the semesters of the program-study during one day of their registration period for the spring semester of 2010, where the completion time varied from 16 to 20 minutes. This procedure was mainly adopted in order to minimize student non-responses. Initially 220 questionnaires (25% of the student population) were equally distributed in a random order to students of all semesters to ensure the sample’s representative, and
eventually 212 questionnaires were completed that correspond to 24% of the active student population of the department. The sample and the student population consisted of Greek citizens (there are no race differences) with a sample mean age of 19.5 years and a sample range in age of 18 up to 24 years while the percentage of male-female students in the sample was 30 - 70 respectively (28 - 72 in the population).

A preliminary data analysis revealed satisfactory levels of internal consistency and reliability with Cronbach’s alpha coefficient to be calculated at 82%.

Methodological Framework

The analysis of the student’s satisfaction was obtained with the MUSA method (Multi-criteria Satisfaction Analysis) which constitutes a multi-criteria approach for the measurement of customer satisfaction based on linear programming techniques and constrained qualitative regression analysis (Grigoroudis & Siskos, 2002, Grigoroudis & Siskos, 2009). The method assumes that customer’s global satisfaction can be explained by a set of criteria representing the service’s distinctive dimensions. Hence, it is used for the assessment of global and partial satisfaction functions \( Y^* \) and \( X^*_i \) respectively, given customer’s ordinal judgments \( Y \) and \( X_i \) (for the \( i \)-th criterion). The functions \( Y^* \) and \( X^*_i \) indicate the real value that students assign to each level of the global and partial ordinal satisfaction scale. The assumption of an additive utility model is the main principle of the method, and it is represented by the following ordinal regression analysis equation:

\[
Y^* = \sum_{i=1}^{n} b_i X_i^* - \sigma^* + \sigma^- 
\]

where \( Y^* \) is the estimation of the global value function, \( n \) is the number of criteria, \( b_i \) is a positive weight of the \( i \)-th criterion which represents the relative importance of the correspondent criterion, \( \sigma^* \) and \( \sigma^- \) are the overestimation and the underestimation errors respectively, and the value functions \( Y^* \) and \( X^*_i \) are monotonous functions normalized in the interval \([0,100]\).

In order to reduce the size of the mathematical program, the monotonicity constraints for \( Y^* \) and \( X^*_i \) should be removed. This is possible with the use of the following transformation equations:

\[
z_m = y^{\text{min}} - y^{\text{max}} \quad \text{for} \quad m = 1,2,\cdots,a - 1
\]

\[
w_{ik} = b_i x_i^{\text{max}} - b_i x_i^{\text{min}} \quad \text{for} \quad k = 1,2,\cdots,a_i - 1 \quad \text{and} \quad i = 1,2,\cdots,n
\]

where \( y^{\text{min}} \) is the value of the \( y^* \) satisfaction level, \( x_i^{\text{max}} \) is the value of the \( x_i^* \) satisfaction level and \( a_i \) and \( a \) are the number of global and partial satisfaction levels respectively.

Based on the above, the estimation model can be formulating into the following linear programming form:

\[
\min \ F = \sum_{j=1}^{M} \sigma_j^* + \sigma_j^- 
\]

subject to

\[
\sum_{j=1}^{M} \sum_{k=1}^{a_j} w_{jk} = \sum_{m=1}^{a - 1} z_m - \sigma_j^* + \sigma_j^- = 0 \quad \text{for} \quad j = 1,2,\cdots,M
\]

\[
\sum_{m=1}^{a - 1} z_m = 100
\]

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\]

\[
z_m, w_{jk}, \sigma_j^*, \sigma_j^- \quad \forall m, i, j, k
\]

where \( M \) is the size of the student sample, \( y^* \) and \( x_i^* \) are the global and partial satisfaction judgments of the \( j \)-th student.

Furthermore the MUSA methodology provides not only the satisfaction degrees estimated for the criteria and sub-criteria stated above, but also provides a set of normalized indices and diagrams (Grigoroudis & Siskos, 2002) that may enhance the levels of the satisfaction analysis and link the results with actions that should be taken in order to improve the department’s overall performance.

Consequently the indices and diagrams that are obtained from the analysis are as follows:

- **Satisfaction indices**: these are average indices in the 0 - 1 interval and they reflect the student’s global or criteria satisfaction.
- **Demanding indices**: they are normalized indices in the \([-1, 1]\) interval and reveal the student’s global or criteria demanding level.
- **Improvement indices**: they are normalized indices in the \([0, 1]\) interval and display the improvement margins on a specific criterion.
- **Action diagrams**: they are diagrams similar to the ones of the SWOT analysis and are obtained from the combinations

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### Table 1.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Sub-criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Program Study</td>
<td>Adequacy, Organization, Module variety</td>
</tr>
<tr>
<td>2. Academic Staff</td>
<td>Friendly behavior, Preparation adequacy, Communication</td>
</tr>
<tr>
<td>3. Tangibles (Equipment)</td>
<td>Building adequacy, Other facilities, Education material, Labs adequacy, Library timing, Library’s reading room, Lending Procedures, Library’s electronic system</td>
</tr>
<tr>
<td>4. Administrative Services</td>
<td>Correspondence, Friendly behavior, Clear informing, Service speed</td>
</tr>
<tr>
<td>5. Image-Fame</td>
<td>Expectations, Recognition, Representation-Promotion, Quality, Interdisciplinary</td>
</tr>
</tbody>
</table>

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- **Improvement indices**: they are normalized indices in the \([0, 1]\) interval and display the improvement margins on a specific criterion.
- **Action diagrams**: they are diagrams similar to the ones of the SWOT analysis and are obtained from the combinations
of criteria weights and satisfaction indices.

- Improvement diagrams: they are diagrams obtained from the combinations of demanding and improvement indices and may be used to rank improvement priorities.

**Results**

Initially a statistical analysis is performed to determine the variations obtained among the student’s judgments. Global student’s judgments, represented as frequencies, are given in Figure 1 where it appears that 50.5% of the student sample are “satisfied or rather satisfied” and 14.2% are “not satisfied or rather not satisfied”.

Furthermore, the student’s judgments in the main criteria of the research are displayed in Table 2 from where we can observe that the criterion Image-Fame of the department shows the highest percentage 55.2% in the “satisfied or rather satisfied” category and the lowest percentage 7.6% in the “not satisfied or rather not satisfied” category. Inversion of the percentages appears to obtain the criterion Equipment (Tangibles) with the 37.7% “satisfied or rather satisfied” answers and almost 20% “not satisfied or rather not satisfied”. Should also be noted that a high percentage of students remain indifferent in all the criteria.

Additionally the satisfaction analysis obtained indicates that the Health Care Management Department enjoys a high global satisfaction level of 83.7% (mean value) while the rest 16.3% of the students claim to be unsatisfied from the quality of services provided by the Department.

In particular the students appear to be fully satisfied with the Image-Fame of the Department and rather satisfied with the Program Study, Academic Staff and Administrative Services (Figure 2), with the exception of Tangibles (Equipment) which amounts to 64.1%.

In any case we can observe that there is enough space for improvement margins in the first four criteria since they are well below the mean satisfaction value (83.7) while the fifth criterion (Image-Fame) obtains a high satisfaction level which is mainly attributable to its dimensions that also enjoy high satisfaction levels and is related with the lower unemployment rate that is observed for its graduates and generally the graduates of Technological Institutes in comparison with the graduates of other higher education institutes (Koiliias et al., 2011).

Correspondent results are obtained for the rest criteria indexes where for the weights (Table 3) the students consider by

![Figure 1](image1.png)

*Overall satisfaction frequencies.*

<table>
<thead>
<tr>
<th>Scale Criteria</th>
<th>Satisfied</th>
<th>Rather Satisfied</th>
<th>Neither satisfy Nor dissatisfied</th>
<th>Rather Dissatisfied</th>
<th>Dissatisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program study</td>
<td>7.1</td>
<td>40.1</td>
<td>43.4</td>
<td>6.6</td>
<td>2.8</td>
</tr>
<tr>
<td>Academic staff</td>
<td>9.0</td>
<td>42.9</td>
<td>38.2</td>
<td>6.1</td>
<td>3.8</td>
</tr>
<tr>
<td>Equipment</td>
<td>4.7</td>
<td>33.0</td>
<td>42.5</td>
<td>15.1</td>
<td>4.7</td>
</tr>
<tr>
<td>Admin. Services</td>
<td>10.4</td>
<td>38.2</td>
<td>42.9</td>
<td>7.5</td>
<td>0.9</td>
</tr>
<tr>
<td>Image-Fame</td>
<td>11.3</td>
<td>43.9</td>
<td>37.3</td>
<td>7.1</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Table 2.**

*Criteria satisfaction frequencies (%).*
for the Image-Fame criterion as the most important (weight factor 51.1) while the rest appear to be with lower weight factors and more or less equally balanced.

All five criteria show negative demanding levels (Table 3) implying that students appear to be rather neutral or non demanding so that the total demanding index is measured to –0.64%. Demanding indexes (D) may have the following interpretation:

Non demanding students (D = −1) are those that declare satisfied although their expectations are fulfilled in a low level. Neutral students (D = 0) are the students whose satisfaction increases proportionally to their fulfilled levels of expectations. Demanding students (D = 1) are those students that declare satisfied when they get only the highest level of services. The above results agree with those of the statistical analysis stated earlier however it should be stressed that the class of demanding students does not appear at all in our sample.

Moreover the improvement indexes for all the criteria look almost the same with a slight difference on the Equipment criterion (3.8%) which suggests that this criterion may contribute more than the others in the increase of global satisfaction.

Similar results are recorded for the sub-criteria of each criterion where, the partial indexes for the sub-criteria are accumulated around the value of the major criterion and the students appear to be in general rather neutral and non demanding.

Particularly, in the criterion Program study the satisfaction indices for the sub-criteria are gathered around the value of 73% while the weights are equally allocated with weight factor 16.7% for each sub-criterion. For the criterion Academic staff the highest satisfaction level 75.1% appears in the sub-criterion 2.3 (Communication) and the lowest satisfaction level 68.1% appears in the sub-criterion 2.4 (Education methodology) whereas each sub-criterion carries a weight factor of 14.3%.

In the criterion Tangibles (Equipment) the lowest satisfaction value 44% emerges in the sub-criterion 3.2 (Other facilities) and the highest in the sub-criterion 3.1 (Building adequacy) with weight factor for each one of 11.1%. For the Administration Services criterion the satisfaction indices for the sub-criteria are more or less around the level of 80% with weight factor for each one of 25%. Finally in the Image-Fame criterion the satisfaction of the sub-criteria lies between 92% and 96% with a weighting scheme of 17% the lowest for the sub-criterion 5.4 (Quality) and 24% the highest for the sub-criterion 5.2 (Recognition).

Based on the above, action and improvement diagrams may be obtained for tracking changes of student’s preferences. Action diagrams (performance-importance maps) may determine the weak and strong points of student’s satisfaction as well as the actions that should be undertaken to improve the overall satisfaction. These diagrams are composed of four quadrants depending on the performance (satisfaction indices) and the importance (weights) of the criteria (Grigoroudis and Siskos, 2002).

Starting counter-clockwise we find in the 1st quadrant (power area) the Image-Fame criterion (Figure 3) suggesting that this one constitutes the strong point of the department since it contributes significantly in the formation of the global student satisfaction. In the 2nd quadrant (transform resources area) lies the Academic Services criterion implying that students pay little attention to this criterion. In the 3rd quadrant (status quo area) there are three criteria namely Program study, Academic staff and Equipment indicating that students consider these dimensions of low importance with low satisfaction as well. Finally in the 4th quadrant (action area) that constitutes high priority area, there aren’t any criteria.

Having determined the criteria with low satisfaction the next question is how can we improve their level? This is possible by considering the action diagrams separately for each criterion indicating thus which sub-criteria present high priority for improvement. For the Program study criterion the sub-criteria Organization, Profession Contiguity and Module Variety constitute high priority for improvement since they lie in the action

Table 3.

<table>
<thead>
<tr>
<th>Index Criteria</th>
<th>Weights (%)</th>
<th>Demanding</th>
<th>Improvement (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program study</td>
<td>12.3</td>
<td>−0.35</td>
<td>3.3</td>
</tr>
<tr>
<td>Academic staff</td>
<td>11.1</td>
<td>−0.28</td>
<td>3.2</td>
</tr>
<tr>
<td>Equipment</td>
<td>10.5</td>
<td>−0.23</td>
<td>3.8</td>
</tr>
<tr>
<td>Admin. Services</td>
<td>15.1</td>
<td>−0.47</td>
<td>3.1</td>
</tr>
<tr>
<td>Image-Fame</td>
<td>51.1</td>
<td>−0.84</td>
<td>3.0</td>
</tr>
</tbody>
</table>
area of the corresponding diagram and therefore students are not enough satisfied from these characteristics. Furthermore for the Academic staff criterion the sub-criteria Friendly behavior and Informing appear in the action area whereas the sub-criterion Education methodology is in the status quo area and for the Equipment criterion the sub-criteria Other facilities and Education material lie in the border of the action area while Library’s reading room and Lending Procedures appear in the status quo area.

In a similar fashion the improvement diagram (Figure 4) depicts the satisfaction dimensions that may be progressed based on the demanding and impact indices. First priority form the criteria Equipment and Program study since they lie in the 4th quadrant and present high impact and low demanding index. Hence, the more demanding the students are the more satisfaction growth is awaited in fulfilling their expectations in the corresponding criteria. Second priority corresponds to the criteria Academic Staff, Administrative Services and Image-Fame which appeared less demanding and so potential improvement efforts may imply greater effectiveness.

All previous results suggest that student satisfaction may be improved mainly in the four mentioned criteria driving thus the

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**Figure 3.**
Action diagram for the main criteria.

**Figure 4.**
Improvement diagram for the main criteria.
global satisfaction into higher levels. Exception could possibly exist for the criterion Image-Fame with high satisfaction level, well above the mean value, which is likely to reflect the Department’s overall reliability, representation and quality and hence forms its competitive advantage.

Consequently the Department should elaborate a middle term improvement plan for the dimensions stated earlier taking into consideration the priorities for the criteria and sub-criteria derived from the analysis and connect them with effective actions to fulfill student’s expectations. For example Academic Staff should examine the adoption of contemporary methods and techniques regarding the delivery of lectures and communications with students so that students become eventually motivated. Motivated students are satisfied students (Suhr et al., 2007; Schertzer, 2004) and this is actually a crucial point raised from the results since students are neutral or non demanding towards all criteria and sub-criteria which directs to lack of motivation. This could be partly explained from the way the Greek system for university entry works. It might be the fact, that for a certain percentage of students, the Department was not their first university entry choice.

Conclusion

Improving quality service has become an important task for most higher education institutions. However there exist many arguments supporting the close relationship between service quality and customer satisfaction. Moreover some studies, mentioned above, argue that perceived quality depends on satisfaction and consequently increasing customer’s satisfaction leads to a rise in service quality. This study adopts a multi-criteria methodology in the estimation of student satisfaction and attempts, via its methodology, to give some more light in the relationship of student satisfaction and quality characteristics since global satisfaction depends on a set of criteria representing quality dimensions.

The results of the research show that the mean global student satisfaction is quite high (83.7%) suggesting though marginal improvements. Furthermore the results confirm the significance of analyzing student satisfaction and the implications that are assigned to specific quality dimensions of higher education. For instance it is really interesting to see the importance that students pay in the criteria that compose global satisfaction and also take under consideration the demanding level that students display to these criteria. Particularly, students consider of high importance the criterion Image-Fame of the Department, which probably reflects its overall quality and reliability, and of low importance the criteria Program study, Academic Staff, Administrative Services and Equipment (Tangibles). Additionally combining the estimated satisfaction indexes and weight factors for the criteria (sub-criteria), improvement diagrams may be produced indicating which dimensions should be improved to increase the global satisfaction. The improvement efforts and the suggestions that arise should be based on the logic of preserving the satisfaction levels of the strong points while increasing the satisfaction of the weak points. A supplemental result to draw attention is that students appear to be neutral or non demanding to all criteria and sub-criteria.

Consequently, it becomes clear that the Department should work out a middle term plan, based on satisfaction analysis results, to minimize dissatisfaction and to increase motivation and thus limit the percentage of indifferent students. Of crucial importance is the extent to which academic staff recognizes the analysis results, which forms an influential factor connected with the follow up actions that will lead to quality improvement. Using MUSA methodology on a regular overtime basis may provide valuable insights into changes and trends regarding student’s satisfaction and its constituent dimensions.

A straightforward consequence from the above considerations could possibly be the adaption of a satisfaction barometer in the evaluation systems of higher education institutions, so that student’s satisfaction could be regularly monitored and associated with correspondent quality actions and policies. The former may be interactively connected with the external evaluation that is undergoing in Greek Higher Education since 2007, combining thus external and internal assessments into a structured quality framework.

References