FACTORS OF THE BRAND IMAGE INFLUENCING STUDENTS' CHOICES IN HIGHER EDUCATION INSTITUTIONS IN HO CHI MINH CITY

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ABSTRACT

The awareness of brand image increasingly becomes a great importance in students' choices towards higher education institution. This study aims to investigate factors of brand image which influence the choices of students in terms of postgraduate universities, the case of three universities in Ho Chi Minh City (HCMC): International University HCMC, Economics University HCMC, University of Economics and Law HCMC. Focus group and paper-based techniques are applied to build questionnaire forming. The surveys of 450 samples would be collected by email survey technique. The qualitative method of factor analysis and ANOVA are used for this study. The results show the positive significance of human resource quality, program quality, infrastructure, cost and reputation of the universities to students' choices. Besides, there is an influence between type of job and students' choices.

Keywords: Brand image; Higher education institution; Students' choices.

1. Introduction

In the context of integration with the world economy, the affirmation and enhancing the position of country become a general trend of all countries, especially developing countries. Moreover, education in Vietnam currently plays a very important role not only students and parents but also for teachers and lecturers in order to create useful people for society development. In particular, higher education has an essential thing in creating and increasing the value of national brand. In an increasing competition in higher education, institutions have to face the huge challenges in the high caliber students and academic staff. The awareness of students about brand of institution may have influences on the success of institutions and students' intentions to

engage with the university in the future. The fact that nowadays more and more students would like to study higher education program in domestic not only in programs of English taught but also in Vietnamese. Understanding of the demand of market, there are many studies related to brand management for universities which attract more students. Almost studies are related to how to build and develop brand name for universities in general and there is a lack of research about higher education program which linked to brand image of universities. Thus, this study will investigate the factors of image influencing students' choices in higher programs.

The first objective is to investigate the factors of brand image that influence choices of students in term of higher education in these universities: International University HCMC, University of Economics and Law and University of Economics. The second objective is to examine the relationship between these factors and find out the most influenced factors of brand image toward students' choices. The third objective is to study the influence of demographic variables to students' choices towards higher education institutions.

2. Literature review

2.1. Higher education

(1998) the According to UNESCO definition of higher education can be illustrated as follows:

Higher education comprises all postsecondary education, training and research guidance at education institutions such as universities that are authorized as institutions of higher education by state authorities.

In the Vietnam educational system, higher education is for people which completed the study at universities. In other words, people which have bachelor degree can apply for higher educational programs in terms of related fields.

2.2. Brand and brand management

Many authors have definitions of brand and according to Kotler a brand is defined as "a name, term, sign, symbol, or design, or a combination of them, intended to identify the goods and services of one seller or a group of sellers and to differentiate them from those of competitors" (Kotler 1997, p. 443). According to Charlotte F. Knudtzen and Mogens Bjerre (2009, p. 9) they stated that the definition of brand can be in some more aspects which included internal and organizational processes.

Jean-Noel Kapferer (2012, p. 7) stated that brand management starts with the product and service as the prime vector of perceived value, while communication is there to structure, to orient tangible perceptions and to add intangibles ones. Another understanding about brand management which is mentioned in Management Study Guide (n.d) is that management of tangible and intangible characteristics of brand.

2.3. Brand approach

According to Charlotte F. Knudtzen and Mogens Bjerre (2009) there are seven main brand approaches that need to be considered and divided into two paradigms which are positivistic and constructivist. These seven brand approaches are illustrated through three periods of time which are human/receiver focus, company/sender focus and cultural/ context focus. These seven brand approaches are named as the economic approach, the identity approach, the personality approach, consumer-based approach relational approach.

In the economic approach, the transaction theory and marketing mix theory are applied to analyze the economic brand. The main method of the economic approach is quantitative method using in order to investigate the relationship between variables of management of marketing mix and consumer choices in terms of brand. From that the author found out how these variables affect consumer choices. For the implication of the economic approach, the Four Ps are very famous and important for brand manager to plan a brand strategy for a company.

In the identity approach, four primary supporting themes related to brand identity are mentioned and they are corporate identity, organizational identity, brand image. There are two aspects that are illustrated in the identity approach and they are internal and external side. In the internal side the corporate identity and organizational identity are mentioned. However, for the external side the brand image elements are considered to analyze through cognitive and social psychology methods. This identity approach can be applied to improve the brand identity for organizations through many actions related to brand image, reputation, behavior and culture of organizations.

The personality approach is applied through the concepts of the cognitive consumer perspective and a theory of a process of information in terms of consumer choices. More over customer- based brand equity is taken into account for this approach.

According to Charlotte F. Knudtzen and Mogens Bjerre (2009) the personality approach assumes that personality traits are important drivers for analysis between brand and consumer. There are three supporting themes in the personality approach. They are personality, consumer self and brand- self congruence.

In the relational approach, three theories are applied to analyze brand management and they are animism, human relationships and brand relationship. (Charlotte F. Knudtzen and Mogens Bjerre, 2009). The author emphasizes the method of depth interviews and life story

used to research relationships.

In the community approach, there are three primary theories that have been used include community theory, subcultures of consumption and brand community. Many methods which are ethnographic methods and netnography methods used to research brand communities. (Charlotte F. Knudtzen and Mogens Bjerre, 2009).

In the cultural approach, the theory of cultural branding, the No Logo movement and its resistance to branding and the theory of the citizen-artist brand prospect are three main theories. Variety methods that have been used to research cultural consumption include macro-level analysis and micro-level data. (Charlotte F. Knudtzen and Mogens Bjerre, 2009).

The seven brand approaches can be summarized by the table as follows:

Table 1The seven brand approaches

Two paradigms	Three periods of time	Seven brand approaches		
	Human/			
	receiver focus	The economic approach		
Positivistic		The identity approach		
	Company/			
	sender focus	The personality approach		
Constructivist	tructivist The cons			
		The relational approach		
	Cultural/			
	context focus	The community approach		
		The cultural approach		

Source: Charlotte F. Knudtzen and Mogens Bjerre. (2009).

2.4. Brand image

Hitesh Bhasin (2013) stated that brand image is a deciding factor that directly affect the sales of products. Moreover, he mentioned

that brand image is an accumulation of beliefs and views about that particular brand. The value and characters of the brand portrayed by their image and this is the main component

in the scheme of things. One of the essentials is the brand image that is the mirror which reflects the organization's key values. Some organization which has a range of good quality products but has bad evaluation of brand image may lead to a decrease in sales and profits as well. Therefore, the brand image is one of important factors that influences companies' successes and long-term strategies.

Many researchers have studied brand image and the definition of brand image can be summarized by the following table:

Table 2 Brand image concept in the brand literature

Perspective	Source	Definition of brand image
1 crspective	Herzog (1963)	Consumers 'general perception and impression of a brand
Blanket definitions	Newman (1985)	Consumers 'perception of a product's total attributes
	Dichter (1985)	Consumers 'general impression of the product or service
	Noth (1988)	The symbolic meaning embedded in the product or service
Meanings and messages	Sommers (1964)	Consumers 'perception and recognition of a product's symbolic attribute
	Levy (1973)	The symbolic meaning of purchasing the product or service
	Martineau (1957)	Brand image reflects consumers 'characteristics, and they purchase the brand to express themselves
Personification	Bettinger (1979)	The personification of a product, which can be manifested as "adult" and "children"
	Sirgy (1985)	Image of the brand resembles human personality
	Gardner & Levy (1955)	Brand image is consisted of consumers 'opinion, attitude and emotion toward a brand, which reflects the cognitive or psychological elements of the brand
Cognitive or psychological elements	Levy (1978)	Consumers 'overall impression about a brand or product, which includes recognition, feeling and attitude toward it
	Bullmore (1984)	Consumers' general perception and opinion of a brand's total attributes
	Kapferer (1994)	Consumers' general perception about the brand feature's association

Source: Yi Zhang (2015).

2.5. Relationship between factors of brand image and students' choices

To understand the important of brand image this study tries to illustrate all indicators that influence students' choices in higher education institutions and the case is conducted in three HCM city universities.

According to Kevin Land Keller (2013, p 72) he stated that:

Creating brand awareness by increasing

the familiarity of the brand through repeated exposure (for brand recognition) and forging strong associations with the appropriate product category or other relevant purchase or consumption cues (for brand recall) is an important first step in building brand equity. Once a sufficient level of brand awareness is created, marketers can put more emphasis on crafting a brand image.

Brand image that has been studied for long time and it is proved that this is an important concept in marketing. Brand image is considered that this is related to the consistent with associative network memory model which mentions consumer perceptions of a brand. The brand image reflects consumer memory by the brand associations. In other words, information of brand association links to brand memory of consumers and this has meaning to consumers. Associations may come from characteristics of the product or any related aspects of the product. (Kevin Lane Keller, 2013, p 79).

Corporate image will depend on many dimensions as follows:

Common product, attributes, benefits or attitudes there are two dimensions contribute noticeably to strong association of brand image and they are of high quality and innovation. (Kevin Lane Keller, 2013, p 411). High quality for higher education programs may come from many aspects such as the quality of human resources, the quality of program structures, the infrastructure of the universities. It is clear that the quality program related to all courses and contents which satisfy students' expectations. Le Nguyen Binh Minh (2012) suggested that all these above dimensions have positive effect to the brand image of Sai Gon University. Moreover, attribute dimensions of corporate image which bring positive

associations of brand image is the cost of the program. The second dimension is about innovation which can be considered in order to create strong associations of brand image. Keller (2013, p 412) stated that perceived innovativeness is also a key competitive weapon and priority for firms in other countries According Nhat Hong (2017) she emphasized innovation training methods. in service quality and management contribute significantly to the brand of the university.

People and relationship: according to Kevin Lane Keller (2013, p412) these elements are related to the professional of employees and service quality in order to bring the best quality product to consumers. A customerfocused corporate image association creates consumer perceptions of a company responsive to and caring about its customers (Keller, 2013, p412). Thus, the professional of human resource in university play a primary role in creation of strong association of brand image to students' memory in order to increase students' choices.

Value and program: Keller (2013, p 413) stated that these dimensions are related to social responsibility. A socially responsible corporate image association portrays the as contributing to community company supporting artistic and social programs, activities, and generally attempting to improve the welfare of society as a whole.

According to Le Nguyen Binh Minh (2012) stated that the reputation of a university has a positive effect to brand image of a university. Moreover, Ioan-Constantin Enache (2011) also mentioned that the importance of reputation in modern educational institutes. Universities are more and more orient to develop and keep a good reputation.

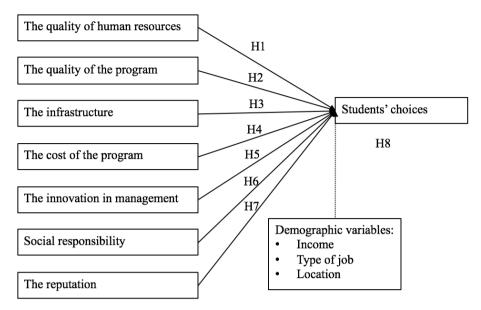


Figure 1. Theoretical framework

The concept of reputation is used in order to influence students' choices when selecting higher education institution. Understanding of a reputation concept enables management to use it more effectively in communication strategy which has a major role in positioning of an institution (Nguyen, N. & LeBlanc, G. 2001, p.303). Those with whom the institutions have the need to communicate. On the one hand, those from internal surroundings such as present students, faculty staff, but on the other, recruiters and potential applicants. It is relevant to say that all these subjects from internal and external environments interact with each other, thus, consistency is here particularly important. The message which is created for the public can be in the form of publications, press releases, speeches, memos, reports and the variety of other channels which schools use to interact with their constituencies.

There are numerous benefits from having a good reputation on the higher education market. For instance, favorable reputation on foreign markets can be beneficial in two ways. On the one hand, it is institutions' interests that attract talented foreign students, but on the other hand, by attracting foreign students and enjoying good reputation abroad the institution will reinforce the idea that the educational programs are of a high quality, internationally oriented, acknowledged and appreciated outside the country borders. Additionally, a good reputation among employees will distinguish higher education institutions, resulting in greater respect on the part of the employers, consequently increasing the recruitment prospects of candidates from this higher education institution rather than from other institutions (Martensen & Gronholdt, 2005).

There are many studies that prove the influences of demographic variables to decision making related to choices of education institutions. According to College Board (2005) they stated that changing in demographic modified students'choices in many kinds of institutions. Students may orient to apply to community colleges because there is a low cost of tuition fees and a development of course work possibility.

3. Research methodology

3.1. Hypothesis development

Based on the above discussion the following relationship between students' choices and brand image of the universities is hypothesized:

H1: The quality of human resource of the university is positive and direct to students' choices towards higher education institutions.

H2: The quality of the program is positive to students' choices towards higher education institutions.

H3: The infrastructure of the university is positive to students' choices towards higher education institutions.

H4: The cost of the program is positive to students' choices towards higher education institutions.

H5: The innovation in management and training methods are positive to students' choices toward higher education institutions.

H6: Social responsibility of the university is positive to students' choices towards higher education institutions.

H7: Reputation of the university is positive to students' choices towards higher education institutions.

H8a: Location influences to students' choices towards higher education institutions.

H8b: Income influences to students' choices towards higher education institutions

H8c: Type of job influences to students' choices towards higher education institutions.

3.2. Research design

Chapman (1981) proposed the first model in which six points is used to measure all the items related to factor influencing students 'choices in colleges. Recently many researchers adapted the 5-points Likert scales to measure factors affecting students 'choice in higher education institutions. Wiese, Heerden and Jordaan (2010) adapted Likert scales to measure the role of demographic variables in selection of students in higher education institutions. This study will apply 5-point Likert scales for all items' measurement. The scales which are range from 1 to 5 and they mean strongly disagree, disagree, neither agree nor disagree, agree, strongly agree with respect to 1, 2, 3, 4, 5. If a student chooses scales of 1, it describes the student strongly disagrees with the item.

The questionnaire is illustrated by two sections. Section 1 describes the students'

information about demographic variables such as name of university, name of higher education program, gender, age, type of job, monthly income, location. Section 2 presents the evaluation of all factors influencing students' choices in higher education institutions.

After the qualitative research, the questionnaire is formed. The study consists of 46 independent variables and 3 dependent variables. According to Green (1991) he stated two important reasons of multiple regression and statistical power and the sample size should be illustrated by the formula as follows:

N>50+8K, where K is the number of independent variables

Thus, the sample is required:

$$N>50 + 8*46 = 418$$

Therefore, the final sample size should have the minimum number of 450.

The survey will be delivered to three universities in Ho Chi Minh City as mentioned above. All respondents must study in higher education programs. The proportion of survey of three universities is around equal, with around 33%. The questionnaires were delivered to the students by email by the end of August 2017. An email survey was created by Google and sent out to students by email. Students answered the questionnaire by filling in the email survey and the responses were collected. As a result, there are 450 samples from the email survey and these samples will be used for data analysis.

3.3. Data analysis method

Data analysis method is based on a process of quantitative analysis. It means the results of data analysis will be clear figures. These numbers will be showed in term of tables, charts, or percentages. Data manipulating will be done by statistical techniques. For this study, the IBM SPSS version 22 will be used for all analysis. This process of analysis will be carried out step by step as following.

First of all, excel software and spreadsheets are applied to enter the raw data

from questionnaire. The items will be sorted and grouped in reasonable order and it will help the following process of data analysis more easily.

Next, SPSS software is used as an intermediate mean of analysis. Data will be input into spreadsheets of SPSS window. Here, data will also be coded according to the purpose of research: the chosen 'strongly disagree, disagree, neither agree nor disagree, agree, strongly agree' are converted to corresponding number 1, 2, 3, 4 or 5. This data will be saved and used for the process of analysis later.

The Cronbach's Alpha testing will help to check the reliability of the survey results. The threshold of Cronbach's Alpha for all constructs to verify is greater than 0.6. If the construct has Cronbach's Alpha less than 0.6, some belonging items will be deleted to conform to.

The exploratory factor analysis (EFA) needs to be carried out in order to confirm all variables creating their factors.

At the next stage, the multiple regression will be analyzed to find out the relationship between independent variables and dependent variables.

Finally, ANOVA analysis is conducted to find out the relationship between demographic variables and choices of students. The quality of human resources was divided into six measurement items, the quality of the program was divided into five measurement items, the infrastructure into four measurement items, the cost of the program into six measurement items, the innovations into management into five measurement items, the social responsibility into five measurement items, the reputation into five measurement items and the students' choices into three measurement items.

4. Results and Discussion

4.1. Reliability analysis

The checking of reliability of all factors is satisfied if the values are higher than 0.6. With the elimination of variables c19 (a<0.6), the cronbach's alpha of all factors is satisfied. Variable c19 which "Lecturers ensure peaceful environment in class" is eliminated from the factor of study environment.

Table 3 Factors and Cronbach's Alpha

Factor	Code	Items	Cronbach's Alpha
	c1	Professors are highly qualified in dealing with the students	
	c2	Professors have in-depth knowledge of the subject matter	
1	c3	Lecturers' methods of evaluating students are fair	
Lecturer Quality	c4 Professors' teaching method encourage students to develop self- determination and activeness in learning		0.869
	с6	Professors are experienced enough to satisfy students' specialty needs	
	c7	University employees treat to all with no discrimination	
2 Employee	c8	University employees help the students in terms of needs	
	c9	The communication of the employees to students is good	0.915
	c10	The support staffs are helpful, caring and easily accessible to students	

4.2. Demographic profile

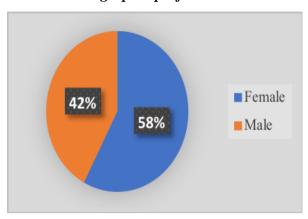


Figure 2. Gender

Regarding the gender, the sample covers 450 including 260 female students which account for 57.8% and 190 male students for 42.2%.

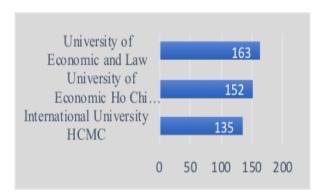


Figure 3. Universities

The total sample consists of 30% of HCMC International University, 33.8% of HCMC University of Economics and 36.2% of HCMC University of Economics and Law. Regarding the higher programs, the most percentage of higher programs is business administration, with 201 students and 44.7 %. Finance programs attract 116 students with 25.8%. Besides, the higher program of international business and economics hold the third and fourth propotions of the sample.

In terms of age the majority of respondents belong to the 22 - 27 age group with 270 students and 60%. The second group from 28 – 33 years of age with 127 students and 60%. The other group from 34 - 39 years of age with 45 students and 10%.

With respect to marital status, from the above-mentioned age group of 22-27, a huge proportion of the respondents (333 students with 74%) was single, Besides, the number of married respondents was nearly half the singles (117 ones and 26%).

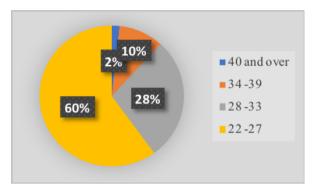


Figure 4. Age

Most of students which are holding the position of office staff are studying higher programs (318 students and 70.7%). Furthermore, 65 students hold the management position (14.4%), and self-employed with 30 students (6.7%). Besides, 29 lecturers are studying higher programs, which account for 6.4 %.

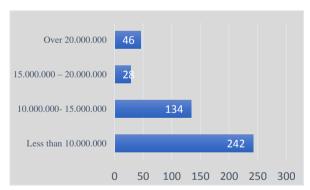


Figure 5. Monthly income

Form the above figure of income data, most students have the monthly income of less than 10 million VND, with 242 students (53.8%). The second group of monthly income ranges from 10 -15 million VND with 134 students (29.8%). 28 students (6.2%) and 46 students (10.2%) which have the monthly income of 15-20 million VND and over 20 million in respectively.

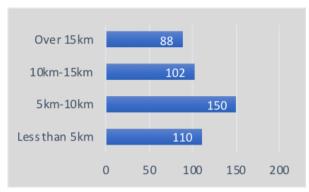


Figure 6. Location

The figure 6 shows the location - how far it is to the university from students' houses. Most students' houses are 5-10km away from the university, with 150 students (33.3%). 110 students' houses (24.4%) at a distance of less

than 5km to the university. Moreover, 102 students' houses (22.7%) are 10-15km away.

4.3. Factor analysis

4.3.1. Exploratory Factor Analysis (EFA) for measurement scales of independent factors

The EFA uses the extraction method of principal component analysis with the rotation method of Varimax with Kaiser Normalization. The table 4 illustrates the KMO =0.836 which means that EFA is appropriate. The rotated component matrix in table 5 describes EFA result. However, there are 10 variables which are rejected because of low loading factor (<0.5). These variables are: c5, c20, c21, c32, c35, c36, c37, c39, c43, c45.

Table 4KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.836
Bartlett's Test of Sphericity	13724.743	
	df	595
	Sig.	.000

Table 5EFA Result

	Component							
	1	2	3	4	5	6	7	
c29	.884							
c26	.866							
c27	.862							
c28	.817							
c38	.608							
c31	.598							
c30	.571							
c9		.849						

	Com	ponent					
	1	2	3	4	5	6	7
c10		.835					
c8		.813					
c11		.788					
c12		.658					
c7		.653					
c1			.872				
c2			.735				
c6			.705				
c3			.625				
c4			.608				
c40				.833			
c41				.749			
c33				.739			
c34				.629			
c46				.575			
c18				.531			
c24					.840		
c23					.826		
c22					.805		
c25					.594		
c16						.656	
c14						.609	
c17						.589	
c15						.582	
c13						.538	
c42							.867
c44							.853

4.3.2. Exploratory Factor Analysis (EFA) for measurement scales of dependent factors

The EFA result of "choices of students" is

appropriate and illustrated in table 6. The result provides the information of KMO=0.715 (>0.5) as well as total extracted variance equal 80.596%.

Table 6KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure	.715			
Bartlett's Test of Sphericity	Bartlett's Test of Sphericity Approx. Chi-Square			
	df			
	Sig.			

4.4. Regression analysis

The table 7 shows R square equal 0.687 which measures the proportion of the variation in the dependent variable. The R square is higher and appropriate for explanation. Moreover, Durbin Watson which is 2.1 and we can predict that there is no autocorrelation between residuals. Thus, we do not reject the null hypothesis no autocorrelation, positive or negative. In other word, regression assumption of no autocorrelation is respected. The significant in table 8 is less than 0.05 and this

means the regression model use to predict dependent variables is appropriate. There is not much multicollinearity between independent variables. The table 9 shows that the tolerance of independent variables is greater than 0.1 (>0.1) and VIF <10 (variance inflation factor). In the table 9 the significant of variable "social responsibility" is 0.133 (>0.05), thus there is not the impact of this variable to the dependent variable. Hence, the variable of "social responsibility" is rejected from regression model.

Table 7Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.829 ^a	.687	.682	.45991	2.100

Table 8The analysis of variances

Mode	1	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	205.533	7	29.362	138.815	.000 ^b
	Residual	93.491	442	.212		
	Total	299.024	449			

Table 9The regression result

	Unstandardized Coefficients		Standardized Coefficients			Collinearity Statistics	
Model	В	Std. Error	Beta	t	Sig.	Tolerance	VIF
(Constant)	703	.184		-3.831	.000		
Cost	.314	.037	.276	8.559	.000	.681	1.469
Employee	119	.038	111	-3.101	.002	.557	1.795
Lecturer Quality	.296	.050	.226	5.911	.000	.482	2.074
Social Responsibility	.054	.036	.054	1.505	.133	.541	1.847
Study Facilities	.187	.036	.174	5.220	.000	.637	1.571
Program Quality	.318	.048	.299	6.698	.000	.355	2.813
Reputation	.176	.032	.169	5.442	.000	.735	1.360

The result of regression can be shown as following:

Students' choices= -0.703 + 0.276 Cost - 0.111 Employee +0.226 Lecturer Quality +0.174 Study Facilities + 0.299 Program Quality + 0.169 Reputation.

The regression result shows that the variables of cost, employee, lecturer quality, study facilities, program quality and reputation are these predicted variables for students 'choices. The most influenced factor is program quality with the beta of 0.299. The next impacted factors are cost (beta=0.276), lecturer quality (beta=0.226), study facilities (beta=0.174) reputation (beta=0.169) and employee (beta=-0.111).

4.5. Discussion

Therefore, the factors of brand image which are recognized influence choices of students toward higher education institution. The most influenced factor is program quality with the beta of 0.299. The next impacted factors are cost (beta=0.276), lecturer quality (beta=0.226), study facilities (beta=0.174) reputation (beta=0.169) and employee (beta=-

0.111). Thus, the hypotheses are accepted as follows:

H1: The human resources' competence is positive and direct to students' choices towards higher education institutions.

There have been not only researches but also news supporting to the evidences of importance the human the resources' competence. With the development education in Vietnam, human resources' competence in general and performance lecturer's competence play essential roles at universities. Without no doubt, universities their ranking by performance lecturer's competence which provide animated and deep knowledge to students. Moreover, excellent professors may bring researches to the universities. The ranking of these universities will be improved accordingly. Understanding the crucial point of lecture quality, the universities have been taken into consideration and have the strategies to attract external professors and develop the internal human resources. According to the survey, we can see that students concern this

significant factor.

H2: The quality of the program is positive to students' choices towards higher education institutions.

The reality which we cannot negate is that the higher a program quality is the higher quality of students. Nowadays, the universities pay attention to not only the lecturer quality but also the program quality. The survey shows that students have their concerns for the program quality. This factor directly affects to their choices and their education quality.

H3: The infrastructure of the university is positive to students' choices towards higher education institutions.

In reference with the survey, the next factor that the students considered is the infrastructure of the universities. It can be seen that the high quality of utilities and facilities will attract more students. The students may feel more satisfied with a range of support facilities such as library, conference hall, materials... for their education.

H4: The cost of the program is positive to students' choices towards higher education institutions.

The survey shows that the cost of the program is a factor which students are interested in. It can be seen that the issue of financial problem is always taken into consideration.

H7: Reputation of the university is positive to students' choices towards higher education institutions.

Reputation is a factor that students chose in this study. It reflexes that reputation contribute significantly to the brand images of the universities. The choices of students based on these brand images which are associated with the reputation of the universities.

The factors which are rejected due to EFA analysis:

H5: The innovation in management and training methods are not positive to students' choices toward higher education institutions.

H6: Social responsibility of the university is not positive to students' choices towards higher education institutions.

The reasons that the students do not consider about innovation and social responsibility are their concern and their knowledge. They do not concern these two factors because they do not affect their education according to their thoughts. Moreover, they might not know about what these innovations and social responsibility activities are. Another reason can be come from the universities. The universities may not have enough social activities to publish or a method of communication does not do well.

ANOVA is applied to test hypotheses about means of two or more groups of one independent variable (Pallant, 2007). In this study, types of job are considered to be the independent variable. Because in the test of homogeneity of variances, the sig is 0.018 <0.05, this means equal variances are not assumed. Thus, in Post hoc the testing does not use Least Significant Difference. In this study we use Tamhane's T2 to compare the mean of groups. The results of the ANOVA show that a statistical value of sig (0.01) is less than 0.05. It indicates that there are significant differences at the p<0.05 level in the mean scores for students' choices towards higher education institutions across the six types of job [F(5,444)=4.152, p=0.001]. According to ANOVA analysis the hypothesis below is accepted:

H8c: Type of job influences students' choices towards higher education institutions.

Student has the most impact to choices, which is the mean of 5. The next positions are lecturer, management, office staff, unemployment and self- employed in respectively.

ANOVA one way is used to test the relationship between students' choices and location, students' choices and monthly income. Because in the test of homogeneity of variances, the sig =0.016 <0.05 and 0.000<0.05 respectively (equal variances not

assumed), thus in Post hoc the testing does not use Least Significant Difference. In this study we use Tamhane's T2 to compare the mean of groups. In the ANOVA test, the sig is 0.388 and 0.224 respectively which is higher than 0.05. Therefore, these following hypotheses below are not accepted:

H8a: Location influences students' choices towards higher education institutions.

In Ho Chi Minh City, the location of university is not much important for students' choices. It can be explained that ability to go to work or education institutions around 10 kilometers is fine for people. Moreover, there are many other factors that need to pay attention to in reference with the choices of the students.

H8b: Income influences students' choices towards higher education institutions.

The factor shows that most of the people in this survey have good financial situations for the choice of higher education.

5. Conclusion

The demand and concern about higher education institutions has been increased dramatically in Vietnam. Branding management is gaining the importance since a university brand assists potential students in making right decisions and guarantees that their values and norms will match the institutional ones. By examining the factors of brand image in higher education which influence choices of students in three universities in Ho Chi Minh City, this paper provides further empirical evidences of brand image. Furthermore, the most factor affecting students 'choice would be defined and taken in to consideration. This research also examines influences of demographic variables such as location, monthly income and type of job to students' choices. Focus group and paper-based techniques are applied to build questionnaire forms. The surveys covers 450 samples which were collected by email survey technique. The technique of Conbach's Alpha and Exploratory Factor Analysis are

applied to test a reliability of all measurement scales. The next stage of analysis illustrates a regression between identified factors and choice of students. The application of ANOVA is used for studying the relationship between demographic variables and students' choices. The results show that the positive significance of human resources' competence, program quality, infrastructure, cost and reputation of the universities to students' choices. Besides, there is a relationship between type of job and the choices of students.

The recommendation can be the cost strategy with the competitive cost which provide for the students who need to be taken into consideration. The research of costs of all universities across Vietnam may provide many useful information related to tuition fees for students. Moreover, the appropriate strategies which attract more excellent lecturers from not only local universities but also international universities. With good working environment and compensation, excellent lecturers may provide long-term commitment to the development of such institutions. Besides, high quality program can improved by the co-operation with reputation universities over the world. These Vietnamese institutions will have more benefits from the co-operation in terms of program quality as well as Vietnamese lecturers' competence. An incentive money for research may attract more experienced researchers to come contribute to the institutions. the infrastructure, the demands for higher education in Vietnam have increased greatly so there is now intense competition between universities to attract students. The institutions need to develop themselves by investing money to improve infrastructure such as study facilities. The investment capital may come from many sources such as tuition fees, foreign investment, and corporations. With multimedia systems play a very important role in reputation improvement for the institutions. Advertising through social networks, websites, blog communities and workshops is a popular tool to attract prospective students for applying to a university. The brand image cannot be built in short-term. It needs a long-term development with a synchronization of all factors. Thus, the institutions need to pay attention to the importance of university reputation soon.

Beside the interview with students, managements or leaders of three institutions are interviewed to know about the factors of brand image toward higher education. The collected information is very useful. All managements show that innovation in training is very importance and they had strategies to develop the factors. Moreover, the social responsibility factors are not important enough but it may affect the reputation of these institutions. Thus, the future research may concentrate on the gap between management and students toward brand image factor related to choices in higher education institution

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