THE INFLUENCING FACTORS ON THE LEVEL OF SATISFACTION AND LOYALTY OF INTERNATIONAL STUDENTS AT UNIVERSITI UTARA MALAYSIA (UUM)

BEYAT RAMDANE

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By
BEYAT RAMDANE
815446

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Graduate School Of Business, Universiti Utara Malaysia,
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ABSTRACT

Numerous studies have been conducted to explore the factors affecting students' satisfaction. However, limited studies have proved this investigation in the context of Malaysian educational institutions, specifically UUM. The declining number of international students in UUM has initiated the importance to study the factors affecting international students' satisfaction and loyalty. This study attempted to investigate the factors of education, technology, library services, accommodation, organization and management of programs, image and prestige of UUM that influence on international students' satisfaction and loyalty. 296 international students from undergraduate and graduate programs were used as a sample of this study. Regression analysis was used to analyze the relationship between independent variables (education, technology, accommodation, library services, organization and management of programs, image and prestige, and dependent variable (international students' satisfaction). This study found that education, technology, organization and management of programs, image and prestige were positively influenced on the international students' satisfaction in UUM. In the same manner, this study examined the international students' loyalty as an outcome of international students' satisfaction. The finding revealed a positive relationship between international students' satisfaction and international students' loyalty. It is hoped that this study would add on management literatures and also contribute significantly to managerial practices that could help the management to focus more on these dimensions to further increase international students' satisfaction and loyalty.

Keyword: International Student, Students' Satisfaction, Students' Loyalty, UUM Malaysia.

ABSTRAK

Banyak kajian telah dilakukan untuk mengetahui faktor-faktor yang mempengaruhi kepuasan pelajar. Walaubagaimanapun, jumlah kajian berkenaan topik di atas adalah terhad terhadap institusi pendidikan di Malaysia, khususnya di UUM. Kepentingan kajian mengenai faktor- faktor yang mempengaruhi kepuasan dan kesetiaan pelajar antarabangsa dicetuskan oleh penurunan jumlah pelajar dari luar negara di UUM. Kajian ini bertujuan mengkaji faktor – faktor pendidikan, teknologi, perkhidmatan perpustakaan, penginapan, organisasi dan pengurusan program, imej dan prestij UUM yang mempengaruhi kepuasan dan kesetiaan pelajar antarabangsa di UUM. 296 pelajar antarabangsa yang merangkumi pelajar siswazah dan pelajar pasca siswazah telah digunakan sebagai sample kajian. Analisis regresi digunakan untuk mengkaji hubungan di antara pembolehubah bebas (pendidikan, teknologi, penginapan, perkhidmatan perpustakaan, organisasi dan pengurusan program, imej serta prestij) dan pembolehubah bersandar (kepuasan pelajar antrabangsa). Hasil kajian menunjukkan pendidikan, teknologi, organisasi dan pengurusan program, imej serta prestij memberi pengaruh positif terhadap kepuasan pelajar antrabangsa di UUM. Kajian ini juga menganalisa pengaruh kepuasan pelajar antarabangsa terhadap kesetiaan mereka. Dapatan kajian menunjukkan kepuasan pelajar antarabangsa memberi kesan positif terhadap kesetiaan pelajar. Kajian ini diharapkan dapat menambah literatur pengurusan dan memberi sumbangan yang berguna kepada pihak pengurusan dengan memberi fokus terhadap faktor-faktor yang telah dikaji bagi meningkatkan tahap kepuasan dan kesetiaan pelajar antarabangsa di UUM.

Kata kunci: Pelajar antarabangsa, kepuasan pelajar, kesetiaan pelajar, UUM Malaysia

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LIST OF ABBREVIATIONS

Abbreviation Meaning

DV Dependent Variable

IDV Independent variable

UUM Universiti Utara Malaysia

OECD Organizations for Economic Cooperation and Development

UMAP example University Mobility in Asia Pacific

IHE Institutes of Higher Education

MOHE Minister of Higher Education

PEQ Program Experience Questionnaire

NSS National Student Survey

CGPA Cumulative Grade Point Averages

ORGN Organization and management of programs

H Hypothesis

SIG Significant

R Symbol of Correction

CHAPTER ONE

INTRODUCTION

This chapter introduces outline of the study. The chapter begins with a background about higher education and the overview of Universiti Utara Malaysia, followed by the problem statement, which will describe the concerning, issues of study. The next step covers the research questions followed by research objectives that objective determines all the intentions of a researcher in the study. Afterwards, the significance of the study along with the key terms is being presented, at the last of this chapter organization of the thesis is presented.

1.1 Background of the Study

Education especially the higher education is deemed as the services sector industry, which does not produce any product, but creates value for customers, students, society and all other stakeholders through different activities (Ong & Nankervis, 2012). It is termed as intangible and it can never be stored moved or repaired, but can be benefited from it, not only the person acquiring but also the persons distributing it (Zeeshan, Sabbar, Bashir, & Hussain, 2013). However, the higher education institutions are also referred and included in the services industries because the knowledge provided by institutions of higher education by using their senses, their communication with lecturer, but they can't actually touch and take the knowledge directly and keep their brains or bags (Zain, Jan, & Ibrahim, 2013). Due to the hasty globalization of business, environment, and cultures; education is not remained restricted to local or national precincts and boundaries (McClelland, Horne, Dearnley, Raynsford, & Irving, 2015).

The contents of the thesis is for internal user only

REFERENCES

Abbasi, M. N., Malik, A., Chaudhry, I. S., & Imdadullah, M. (2011). A study on student satisfaction in Pakistani universities: The case of Bahauddin Zakariya university, Pakistan. Asian Social Science, 7(7), 209–219. http://doi.org/10.5539/ass.v7n7p209

Ayub, N. (2010). The Factors Predicting Students' Satisfaction with University Hostels,. Asian Culture and History, 2(2), 148–158.

Altbach, P. (2014). International Higher Education Volume 1: An Encyclopedia: Routledge.

Anderson, E. W., & Sullivan, M. W. (1993). The antecedents and consequences of customer satisfaction for firms. Marketing science, 12(12), 125-143.

Arambewela, R., & Hall, J. (2009). An empirical model of international student satisfaction. Asia Pacific journal of marketing and logistics, 21(24), 555-569.

Ayub, T. S. D. S. H. A. (Producer). (2012). moe.gov. Official website- Ministry of Education Malaysia.

Aliaga, M. &. (2002). Interactive Statistics (2nd ed.). . Prentice Hall.

Anderson, E. W. (1993). The antecedents and consequences of customer satisfaction for firms. Marketing science .

Anderson, E. W. (1993). The antecedents and consequences of customer satisfaction for firms. Marketing science, 12(2), 125-143.

Arambewela, R. &. (2009). An empirical model of international student satisfaction. Asia Pacific journal of marketing and logistics, 21(4), 555-569.

Argote, L., & Ingram, P. (2000). Knowledge transfer: A basis for competitive advantage in firms. Organizational behavior and human decision processes, 82 (1), 150-169.

Argote, L., Beckman, S. L., & Epple, D. (1990). The persistence and transfer of learning in industrial settings. Management Science, 36 (2), 140–154.

Armstrong, M. J. (2003). Students as clients: A professional services model for business education. Academy of Management Learning & Education .

Ayub, T. S. (2012). moe.gov. Retrieved 02 21, 2015, from Official website- Ministry of Education Malaysia.

Bhandari, R., & Blumenthal, P. (2013). International students and global mobility in higher education: National trends and new directions. International Studies, 1, 11.

- Brooks, F. B., & Darhower, M. A. (2014). It Takes a Department! A Study of the Culture of Proficiency in Three Successful Foreign Language Teacher Education Programs. Foreign Language Annals, 47(4), 592-613. doi: Doi 10.1111/Flan.12118
- Butler, Y. G. (2014). Parental factors and early English education as a foreign language: a case study in Mainland China. Research Papers in Education, 29(4), 410-437. doi: Doi 10.1080/02671522.2013.776625
- Ball, S. J. (2007). Education, Globalisation and New Times: 21 Years of the Journal of Education Policy. Routledge. Education heritage series.
- Bohm, A. D. (2002). The global student mobility 2025 report: Forecasts of the global demand for international education. Canberra, Australia.: IDP.
- Bucklin, L. P. (1993). Organizing successful co-marketing alliances. The Journal of Marketing, 32-46.
- Cassel, C., & Eklof, J. A. (2001). Modelling customer satisfaction and loyalty on aggregate levels: Experience from the ECSI pilot study. Total Quality Management, 12(7), 834–841. http://doi.org/10.1080/09544120120095936
- Clow, K. E., Kurtz, D. L., Ozment, J., & Ong, B. S. (1997). The antecedents of consumer expectations of services: an empirical study across four industries. Journal of Services Marketing, 11(4), 230–248. http://doi.org/10.1108/08876049710171704
- Canado, M. L. P. (2015). English as a Foreign Language Teacher Education: Current Perspectives and Challenges. Porta Linguarum(23), 247-248.
- Chee, O. H. (2014). Determinants international students' satisfaction in Universiti Utara Malaysia. Universiti Utara Malaysia.
- CHI, M. (2011). Government aims to attract 200,000 international students by 2020. The Malaysian Insider.
- http://www.themalaysian insider.com/malaysia/article/government-aims-to-attract-200000-international-students-by-2020#
- Carlson, O. (2014). Internationalization of the MBA curriculum and its impact on building students' global competencies (Doctoral dissertation). THE FACULTY OF UNIVERSITY OF MINNESOTA.
- CHI, M. (2011, September 13). Government aims to attract 200,000 international students by 2020. Retrieved january 04, 2015, from The Malaysian Insider: http://www.themalaysianinsider.com/malaysia/article/government-aims-to-attract-200000-international-students-by-2020#

Clayson, D. E. (2005). Marketing models in education: students as customers, products, or partners. Marketing Education Review.

Clayson, D. E., & Haley, D. A. (2005). Marketing models in education: students as customers, products, or partners. Marketing Education Review.

Coakes, S. J., & Steel, L. (2007). SPSS: Analysis with out anguish: version 14.0 for windows. Brisbane: JohnWiley & Sons Australia Ltd.

Coakes, S. J., & Steel, L. (2011). Spss version 14.0 for windows: Analysis without anguish. John Wiley & Sons Australia Ltd.

Darr, E. D., Argote, L., & Epple, D. (1995). The acquisition, transfer, and depreciation of knowledge in service organizations: Productivity in franchises. Management science, 41 (11), 1750-1762.

Devlin, M. J. (2010). Research and Development in Higher Education:Reshaping Higher Education . Higher Education Research and Development Society of Australasia, Inc.

Dick, A. S., & Basu, K. (1994). Customer loyalty: toward an integrated conceptual framework. Journal of the academy of marketing science, 99-113.

Dorweiler, V. P. (1994). Changes in Professional Degree Programs in the USA: An Environmental Analysis of Professional Education Requirements. Higher Education Research and Development, 13(2), 231-252.

Demir, Y. (2015). All or Nothing: English as a Foreign Language (EFL) Student Teachers' and Teacher Trainers' Reflections on a Pre-service English Teacher Education Program in Turkey. Anthropologist, 19(1), 157-165.

Donaubauer, J., Herzer, D., & Nunnenkamp, P. (2014). Does Aid for Education Attract Foreign Investors? An Empirical Analysis for Latin America. European Journal of Development Research, 26(5), 597-613. doi: Doi 10.1057/Ejdr.2013.47

Dorweiler, V. P., & Yakhou, M. (1994). Changes in Professional Degree Programs in the USA: An Environmental Analysis of Professional Education Requirements. Higher Education Research and Development, 13(12), 231-252.

Douglas, J. A., Douglas, A., McClelland, Robert, J., & Davies, J. (2015). Understanding student satisfaction and dissatifaction: an interpretive study in the UK higher education context. Studies in Higher Education, 40(2), 329–349. http://doi.org/10.1080/03075079.2013.842217

Eurico, S. T., da Silva, J. A. M., & do Valle, P. O. (2015). A model of graduates' satisfaction and loyalty in tourism higher education: The role of employability. Journal of

Hospitality, Leisure, Sport & Tourism Education, 16, 30–42. http://doi.org/10.1016/j.jhlste.2014.07.002

Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (2007). Multivariate Data Analysis. 6th edn. Prentice Hall: New Jersey.

Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (1998). Análise multivariada de dados. Bookman.

HAIR JR, J. F. (2009). BLACK, WC; BABIN, BJ; ANDERSON, RE; TATHAM, RL. Análise Multivariada de Dados. 6ª ed. Porto Alegre: Bookman.

Elliott, K. M., & Shin, D. (2002). Student satisfaction: An alternative approach to assessing this important concept. Journal of Higher Education Policy and Management.

Fernandes, C. R. (2013). Understanding student satisfaction and loyalty in the UAE HE sector. International Journal of Educational Management, 27(6), 613-630.

Fram, E. H. (1995). Finding and implementing best practices in higher education. Quality Progress. Quality Progress. Milwaukee , 28(2), 69-74.

Franz, R. S. (1998). Journal of Management Education. Whatever you do, don't Treat your Students Like Customers!

Fernandes, C., Ross, K., & Meraj, M. (2013). Understanding student satisfaction and loyalty in the UAE HE sector. International Journal of Educational Management, 27(26), 613-630.

Fram, E. H., & Camp, R. C. (1995). Finding and implementing best practices in higher education. Quality Progress. Quality Progress. Milwaukee, 28(22), 69-74.

Fukase, E. (2014). Foreign Wage Premium, Gender and Education: Insights from Vietnam Household Surveys. World Economy, 37(6), 834-855. doi: Doi 10.1111/Twec.12103

Gergel, P. (2014). Studies in Foreign Language Education. Muttersprache, 124(1), 100-102.

Geyskens, I., Steenkamp, J. B. E., & Kumar, N. (1999). A meta-analysis of satisfaction in marketing channel relationships. Journal of marketing Research, 223-238.

Gill, S. K., & Kirkpatrick, A. (2013). English in Asian and European higher education. The Encyclopedianof Applied Linguistics: Blackwell Publishing Ltd.

Greveling, L., Amsing, H. T. A., & Dekker, J. J. H. (2014). Crossing borders in educational innovation: Framing foreign examples in discussing comprehensive

education in the Netherlands, 1969-1979. Paedagogica Historica, 50(1-2), 76-92. doi: Doi 10.1080/00309230.2013.872684

Gliner, J. A., Morgan, G. A., & Leech, N. L. (2009). Research methods in applied settings: An integrated approach to design and analysis. Routledge.

Guruz, K. (2011). Higher Education and International Student Mobility in the Global Knowledge Economy: Revised and Updated Second Edition: SUNY Press.

Geyskens, I. S. (1999). A meta-analysis of satisfaction in marketing channel relationships. Journal of marketing Research, 223-238.

Gillespie Finney, T. &. (2010). Are students their universities' customers? An exploratory study. Education+ Training. Emerald Group Publishing Limited.

Gillespie, T. L. (2009). Students as Employees Applying Performance Management Principles in the Management Classroom. Journal of Management Education .

Gray, D., & Daymond, J. (2010). The influence of student engagement levels on satisfaction and behavioural intentions. In Proceedings of the Australian and New Zealand Marketing Academy Annual Conference.

Hamel, G., & Prahalad, C. K. (1990). Corporate imagination and expeditionary marketing. Harvard business review, 69(64), 81-92.

HUI, O. C. (2014). DETERMINANTS OF INTERNATIONAL STUDENTS' SATISFACTION IN UUM UNIVERSITI UTARA MALAYSIA Dissertation.

Haddow, G. (2013). Academic Library use and student retention: A quantitative Analysis. Evidence Based Library and Information Practice, 35(4), 127–138. http://doi.org/10.1016/j.lisr.2012.12.002

Hamrick, F. A., Schuh, J. H., & Mack C. Shelley. (2004). Predicting Higher Education Graduation Rates from Institutional Characteristics and Resource Allocation Florence A. Hamrick Iowa State University John H. Schuh Iowa State University Mack C. Shelley, II. Education Policy Analysis Archives, 12(19), 1–24.

Halbesleben, J. R. (2003). Considering the labor contributions of students: An alternative to the student-as-customer metaphor. Journal of Education for Business.

Hamel, G. &. (1990). Corporate imagination and expeditionary marketing. Harvard business review, 69(4), 81-92.

Hanaysha, J. A. (2011). Service quality and students' satisfaction at higher learning institutions: The competing dimensions of Malaysian Universities' competitiveness. Journal of Southeast Asian Research.

Harvey, M. K. (2003). Staffing marketing positions during global hyper-competitiveness: a market-based perspective. International Journal of Human Resource Management.

Hawawini, G. (2011). The internationalization of higher education institutions: A critical review and a radical proposal. The business school for the word (INSEAD).

Hennig-Thurau, T. (2004). Customer orientation of service employees: Its impact on customer satisfaction, commitment, and retention. International Journal of Service Industry Management, 460-478.

Heskett, J. L. (1994). Putting the service-profit chain to work. Harvard business review, 164-174.

HUI, O. C. (2014). Determinants of international students' satisfaction in UUM. Universiti Utara Malaysia Dissertation.

Ilias, A. I., Hasan, H. F., & Rahman, R. A. (2009). Student Satisfaction and Service Quality: Any Differences in Demographic Factors? International Business Research, p131.

Ismail, A. A. (2009). Exploring the relationships among service quality features, perceived value and customer satisfaction. Journal of Industrial Engineering and Management .

IT, U. (2015). Number of international students in period 2014 to 2015. Sintok, kedah. Malaysia .

IT, U. (2015). Number of international students in period 2014 to 2015. Sintok, kedah. Malaysia

Jiao, Q. G., & Onwuegbuzie, A. J. (1997). The Library Quarterly. Antecedents of library anxiety, 372-389.

Jiao, Q. G. (1997). The Library Quarterly. Antecedents of library anxiety, 372-389.

Johnson, M. D., Gustafsson, A., Andreassen, T. W., Lervik, L., & Cha, J. (2001). The evolution and future of national customer satisfaction index models. Journal of Economic Psychology, 22(2), 217–245. http://doi.org/10.1016/S0167-4870(01)00030-7

Kelo, M. T. (2006). Toward improved data on student mobility in Europe: Findings and concepts of the Eurodata study. Journal of Studies in International Education, 194-223.

Knight. (1997). Internationalisation of Higher Education in Asia Pacific Countries. In J. Knight, Internationalisation higher education; a conceptual framework. Amsterdam: EAIE/IDP: Canadian Bureau for International Education Research.

Knight, J., & DeWit, H. (1995). Historical and conceptual perspectives. Strategies for internationalisation of higher education: A comparative study of Australia, Canada, Europe and the United Stat. In J. &. Knight, Strategies for internationalisation of higher education (pp. 5-32). Canadian Bureau for International Education Research.

Kotler, P. a. (1995). Strategic marketing for educational institutions. 2nd ed. Englewood Cliffs, N.J.: Prentice-Hall.

Kotler, P. a. (2002). Strategic marketing for educational institutions. 2nd ed. . Upper Saddle River, NJ: Prentice-Hall.

Kotler, P. e. (2014). Marketing management 14/e. USA: Pearson.

Kotze, T. G. (2003). Students as "co-producers" of education: a proposed model of student socialisation and participation at tertiary institutions. Quality Assurance in Education .

Krejcie, R. V. (1970). Determining sample size for research activities. Educ Psychol Meas.

Kristensen, K., Martensen, A., & Gronholdt, L. (1999). Measuring the impact of buying behaviour on customer satisfaction. Total Quality Management, 10(4-5), 602–614. http://doi.org/10.1080/0954412997587

Kuo, Y. C., Walker, A. E., Schroder, K. E. E., & Belland, B. R. (2014). Interaction, Internet self-efficacy, and self-regulated learning as predictors of student satisfaction in online education courses. Internet and Higher Education, 20, 35–50. http://doi.org/10.1016/j.iheduc.2013.10.001

Kern, R. (2014). Technology as Pharmakon: The Promise and Perils of the Internet for Foreign Language Education. Modern Language Journal, 98(1), 340-357. doi: DOI 10.1111/j.1540-4781.2014.12065.x

Knight, J. (2011). Education hubs: A fad, a brand, an innovation? Journal of Studies in International Education, 15(3), 221-240.

Knight, J., & Morshidi, S. (2011). The complexities and challenges of regional education hubs: Focus on Malaysia. Higher Education, 62(5), 593-606.

Kotler, P. a. F., K. (2002). Strategic marketing for educational institutions. 2nd ed.: Upper Saddle River, NJ: Prentice-Hall.

Lane, J. E. (2011). Importing private higher education: International branch campuses. Journal of Comparative Policy Analysis: Research and Practice, 13(4), 367-381.

Lee, M. N. (2015). Higher Education in Malaysia: National Strategies and Innovative Practices Mass Higher Education Development in East Asia (pp. 105-118): Springer.

Lim, L. S. (2008). Determinants Of Students' Satisfaction And Students' Loyalty In College X: A Case Study. Doctoral dissertation, USM.

Lu, M. X. (2014). Regression Analysis for Sino - Foreign Cooperation in Running School of Higher Education Based on Iv. Pakistan Journal of Statistics, 30(5), 897-910.

Lim, L. S. (2008). Determinants Of Students' Satisfaction And Students' Loyalty In College X: A Case Study. Doctoral dissertation, USM.

Lim, L. S. (2008). Determinants Of Students' Satisfaction And Students' Loyalty In College X: A Case Study. Doctoral dissertation, USM.

Marmolejo, F. (2010, October 22). Internationalization of Higher Education: the Good, the Bad, and the Unexpected. Retrieved March 3, 2015, from Worldwise globe-trotting thinkers: http://chronicle.com/blogs/worldwise/internationalization-of-higher-education-the-good-the-bad-and-the-unexpected/27512#

Marzo Navarro, M. P. (2005). A new management element for universities: satisfaction with the offered courses. International Journal of Educational Management.

Mitra, S. (2009). Student support services in open schooling: a case study of students' needs and satisfaction in India. Open Learning.

Mooi, E. a. (2011). A concise guide to market research. 1st ed. . Berlin: Berlin: Springer.

Marginson, S. (2011). Higher education in East Asia and Singapore: Rise of the Confucian model. Higher Education, 61(5), 587-611.

McClelland, G. T., Horne, M., Dearnley, C., Raynsford, J., & Irving, D. (2015). Experiences and Outcomes Among Undergraduate Health Professional Higher Education Students With Protected Characteristics: Disability, Gender, and Ethnicity. Journal of Psychological Issues in Organizational Culture, 6(1), 38-64.

Medgyes, P., & Nikolov, M. (2014). Research in foreign language education in Hungary (2006-2012). Language Teaching, 47(4), 504-537. doi: Doi 10.1017/S0261444814000184

Mansori, S., Vaz, A., & Ismail, Z. M. M. (2014). Service quality, satisfaction and student loyalty in Malaysian private education. Asian Social Science, 10(7), 57–66. http://doi.org/10.5539/ass.v10n7p57

Murray, A. L. (2014). The Academic Library and High-Impact Practices for Student Retention: Perspectives of Library Deans. Western Kentucky University.

Naidoo, V., & Wu, T. (2014). Innovations in marketing of higher education: Foreign market entry mode of not-for-profit universities. Journal of Business & Industrial Marketing, 29(6), 546-558. doi: Doi 10.1108/Jbim-07-2013-0153

Naumann, S. E. (2002). A historical examination of employee entitlement. Management Decision .

OECD. (2008, November 20). OECD INDICATORS, Paris, OECD institution for statistics. Retrieved March 03, 2015, from Education at a Glance 2008: http://www.oecd.org/redirect/document/9/0,3343,en_2649_39263238_41266761_1_1%20_1_1,00.html

Oliver, R. L. (1999). Whence consumer loyalty? The Journal of Marketing, 33-44.

Ong, W. M., & Nankervis, A. (2012). Service quality in higher education: Students' perceptions in Australia and Malaysia. Review of Integrative and Business Research, 1(1), 277-290.

Povey, H. (2014). 'Walking in a Foreign and Unknown Landscape': Studying the History of Mathematics in Initial Teacher Education. Science & Education, 23(1), 143-157. doi: DOI 10.1007/s11191-013-9617-2

Pahlavani, M. S. (2005). Structural breaks and external shocks in the Malaysian economy. Journal of econometrics.

Pereda, M., Airey, D., & Bennett, M. (2007). Service quality in higher education: The experience of overseas students. Journal of Hospitality, Leisure, Sport and Tourism Education, 55-67.

Philip G. Altbach, L. R. (2009). A Report Prepared for the UNESCO 2009 World Conference on Higher Education. SIDA/SAREC.

Prospectus, C. (2008/2009). Wembley High Technology College report. East Lane, North Wembley, HAO 3NT: Wembley High Technology College.

Roberts, J., & Styron, R. (2010). Student satisfaction and persistence: Factors vital to student retention. Research in Higher Education Journal

Rojas-Méndez, J. I., Vasquez-Parraga, A. Z., Kara, A., & Cerda-Urrutia, A. (2009). Determinants of Student Loyalty in Higher Education: A Tested Relationship Approach in Latin America. Latin American Business Review, 10(1), 21–39. http://doi.org/10.1080/10978520903022089

Ryan, J. F. (2004). The relationship between institutional expenditures and degree attainment at baccalaureate colleges. Research in Higher Education, 45(2), 97–114. http://doi.org/10.1023/B:RIHE.0000015691.02545.61 Sawyerr, P. T., & Yusof, N. (2013). Student satisfaction with hostel facilities in Nigerian polytechnics. Journal of Facilities Management, 11(4), 306–322.

Simpson, O. (2004). The Impact on retention of interventions to support distance learning students. Open Learning, 19(1). http://doi.org/10.1080/0268051042000177863

Shekarchizadeh, A., Rasli, A., & Hon-Tat, H. (2011). SERVQUAL in Malaysian universities: perspectives of international students. Business Process Management Journal, 17(1), 67-81.

Sijpe, N. V. d. (2013). Is Foreign Aid Fungible? Evidence from the Education and Health Sectors. World Bank Economic Review, 27(2), 320-356. doi: Doi 10.1093/Wber/Lhs023

Singh, J. K. N., Schapper, J., & Jack, G. (2014). The Importance of Place for International Students' Choice of University A Case Study at a Malaysian University. Journal of Studies in International Education, 1028315314523990.

Sekaran, U. a. (2013). Research methods for business. New York: 6th ed. New York Wiley.

Sakaran, O. (2003). Research methodology in management, translated by Mohammad Saebi and Mahmud Shirazi, higher education and research in management and planning institute publication.

Shocker, A. D. (1994). Challenges and opportunities facing brand management: An introduction to the special issue. Journal of Marketing Research.

Sirat, M. (2008). The impact of September 11 on international student flow into Malaysia: Lessons learned. IJAPS, 4(1), 80-95. IJAPS, 4(1), 80-95.

SOPEMI, O. (2010). International Outlook. Secretary-General of the OECD.

Srivastava, R. K. (1998). Market-based assets and shareholder value: A framework for analysis. The Journal of Marketing, 2-18.

Stoltenberg, G. (2011). Investigating the Concept of Students' atisfaction.: The Case of International Students at the UiO. UiO University.

Sumaedi, S. B. (2011). The effect of students' perceived service quality and perceived price on student satisfaction. Management Science and Engineering.

Sumaedi, S., Bakti, I. G., & Metasari, N. (2011). The effect of students' perceived service quality and perceived price on student satisfaction. Management Science and Engineering

•

- Stromquist, N. P., & Monkman, K. (2014). Globalization and education: Integration and contestation across cultures: R&L Education.
- Tedick, D. J., & Wesely, P. M. (2015). A review of research on content-based foreign/second language education in US K-12 contexts. Language Culture and Curriculum, 28(1), 25-40. doi: Doi 10.1080/07908318.2014.1000923
- Tertemiz, N., & Agildere, S. (2015). Efficacy Beliefs and Views of Foreign Language Education Students on Foreign Language Teaching. Hacettepe Universitesi Egitim Fakultesi Dergisi-Hacettepe University Journal of Education, 30(1), 252-267.
- Tessema, M. T., Ready, K., & Yu, W. C. W. (2012). Factors affecting college students' satisfaction with major curriculum: Evidence from nine years of data. International Journal of Humanities and Social Science, 2(2), 34-44.
- Tham, S. Y. (2013). Internationalizing higher education in Malaysia: Government policies and university's response. Journal of Studies in International Education, 1028315313476954.
- Thompson, R. J., Walther, I., Tufts, C., Lee, K. C., Paredes, L., Fellin, L., . . . Schlosberg, L. (2014). Development and Assessment of the Effectiveness of an Undergraduate General Education Foreign Language Requirement. Foreign Language Annals, 47(4), 653-668. doi: Doi 10.1111/Flan.12112
- Uribe, C., Cedergren, H., & Payeras, J. (2014). The effects of education phenomenon linked on students' oral production in a foreign language Spanish course in Quebec. Canadian Modern Language Review-Revue Canadienne Des Langues Vivantes, 70(4), 559-587. doi: Doi 10.3138/Cmlr.2307
- Tessema, M. T. (2012). Factors affecting college students' satisfaction with major curriculum: Evidence from nine years of data. International Journal of Humanities and Social Science, 2(2), 34-44.
- Thomas, E. H. (2004). What satisfies students? Mining student-opinion data with regression and decision tree analysis. Research in Higher Education .
- Throsby, D. (2001). Economics and culture. UK: Cambridge university press.
- Tse, D. K. (1988). Models of consumer satisfaction formation: An extension. Journal of marketing research .
- Usman, A. (2010). The impact of service quality on students' satisfaction in higher education Institutes of Punjab. Journal of Management Research.
- UUM. (2015). uum.edu. Retrieved 2 26, 2015, from The emlenent management university: http://www.uum.edu.my/index.php/en/

UUM, H. (2014). Number of international students in period 2013 to 2014. Sintok, kedah.

UUM, H. (2014). Number of international students in period 2013 to 2014. Sintok, kedah.

Uzum, B. (2013). From 'you' to 'we': A foreign language teacher's professional journey towards embracing inclusive education. Teaching and Teacher Education, 33, 69-77. doi: DOI 10.1016/j.tate.2013.02.009

Venkatesh, V., Croteau, A. M., & Rabah, J. (2014). Perceptions of effectiveness of instructional uses of technology in higher education in an era of web 2.0. Proceedings of the Annual Hawaii International Conference on System Sciences, 110–119. http://doi.org/10.1109/HICSS.2014.22

Verbik, L. a. (2007). International student mobility: Patterns and trends. United Kingdom: The Observatory on borderless higher education Woburn House.

Viberg, O., & Gronlund, A. (2013). Cross-cultural analysis of users' attitudes toward the use of mobile devices in second and foreign language learning in higher education: A case from Sweden and China. Computers & Education, 69, 169-180. doi: DOI 10.1016/j.compedu.2013.07.014

Vieira, F., Moreira, M. A., & Peralta, H. (2014). Research in foreign language education in Portugal (2006-2011): Its transformative potential. Language Teaching, 47(2), 191-227. doi: Doi 10.1017/S0261444813000529

wang, D. l. (2008). The determinants of international student mobility - An empirical study on U.S. Data.

Wiers-Jenssen, J., Stensaker, B. R., & Grgaard, J. B. (2002). Student satisfaction: towards an empirical deconstruction of the concept. Quality in higher education .

Wikipedia. (2015). Wikipedia, the free encyclopedia. Retrieved February 2, 2015, from https://www.wikipedia.org/

Wang, M., Wong, M. C. S., & Granato, J. (2013). The Effect of Foreign Direct Investment on International Migration: Does Education Matter? World Economy, 36(5), 537-562. doi: Doi 10.1111/Twec.12047

Warnes, W. H., Kruzic, J. J., Pratt, C. C., Stehr, C., Cann, D. P., Gibbons, B. J., . . . Wallstrom, L. (2013). Improving Participation of Engineering Students Studying Abroad: An International Dual-Degree Program in Materials Science and Mechanical Engineering. Jom, 65(7), 840-845. doi: DOI 10.1007/s11837-013-0637-9

Wiedenheft, A. M., Traub-Dargatz, J. L., Gillette, S. C., O'Keefe, G. J., Rao, S., & Salman, M. D. (2013). Knowledge Base and Effectiveness of Online Continuing Education about Foreign Animal Diseases for Equine Veterinarians. Journal of Veterinary Medical Education, 40(1), 69-75. doi: DOI 10.3138/jvme.0612-056R

Wikipedia (Producer). (2015). Wikipedia, the free encyclopedia. Retrieved from https://www.wikipedia.org/

Wilkins, S., & Huisman, J. (2012). The international branch campus as transnational strategy in higher education. Higher Education, 64(5), 627-645.

Yee, C. P., & Mokhtar, A. H. A. (2013). International students' learning experiences at private higher education institutions in Malaysia. Proceedings of the Global sSummit on Education, Kuala Lumpur, March, 11-12.

Yoo, B. D. (2000). An examination of selected marketing mix elements and brand equity. Journal of the academy of marketing science .

Zain, O. M., Jan, M. T., & Ibrahim, A. B. (2013). FACTORS INFLUENCING STUDENTS'DECISIONS IN CHOOSING PRIVATE INSTITUTIONS OF HIGHER EDUCATION IN MALAYSIA: A STRUCTURAL EQUATION MODELLING APPROACH. Asian Academy of Management Journal, 18(1), 75-90.

Zeeshan, M., Sabbar, S. D., Bashir, S., & Hussain, R. I. (2013). FOREIGN STUDENTS'MOTIVATION FOR STUDYING IN MALAYSIA. International Journal of Asian Social Science, 3(3), 433-446.

Ziguras, C., & Pham, A. T. N. (2014). Assessing participation in cross-border higher education in cities: Foreign education provision in Ho Chi Minh City. Asia Pacific Viewpoint, 55(2), 169-181. doi: Doi 10.1111/Apv.12051

Zotzmann, K. (2013). Academic Writing in a Second or Foreign Language. Issues and Challenges Facing ESL/EFL Academic Writers in Higher Education Contexts. Elt Journal, 67(3), 370-374.

Fernandes, C., Ross, K., & Meraj, M. (2013). Understanding student satisfaction and loyalty in the UAE HE sector. International Journal of Educational Management, 27(6), 613–630.

Kim, Y., Kang, M., & Jang, H. (2014). Structure Analysis of Service Quality, Satisfaction and Loyalty in Ubiquitous Living English Experience Learning Center (ULEELC). Advanced Science and Technology Letters, 71(Education), 132–136. Retrieved from http://onlinepresent.org/proceedings/vol71_2014/31.pdf

Negricea, C. I., Edu, T., & Avram, E. M. (2014). Establishing Influence of Specific Academic Quality on Student Satisfaction. Procedia - Social and Behavioral Sciences, 116, 4430–4435. http://doi.org/10.1016/j.sbspro.2014.01.961

Parahoo, S. K., Harvey, H. L., & Tamim, R. M. (2013). Factors influencing student satisfaction in universities in the Gulf region: does gender of students matter? Journal of Marketing for Higher Education, 23(2), 135–154. http://doi.org/10.1080/08841241.2013.860940

Sawyerr, P. T., & Yusof, N. (2013). Student satisfaction with hostel facilities in Nigerian polytechnics. Journal of Facilities Management, 11(4), 306–322.

Temizer, L., & Turkyilmaz, A. (2012). Implementation of Student Satisfaction Index Model in Higher Education Institutions. Procedia - Social and Behavioral Sciences, 46, 3802–3806. http://doi.org/10.1016/j.sbspro.2012.06.150

Thomas, S. (2011). What Drives Student Loyalty in Universities: An Empirical Model from India. International Business Research, 4(2), 183–192. http://doi.org/10.5539/ibr.v4n2p183

Wilkins, S., & Balakrishnan, M. S. (2012). Assessing student satisfaction in transnational higher education. International Journal of Educational Management, 27(2), 4. Retrieved from http://www.emeraldinsight.com/journals.htm?articleid=17066184&show=abstract

Levin, K. A. (2006). Study design III: Cross-sectional studies. Evidence-based dentistry, 7(1), 24-25