THE FACTORS AFFECTING STUDENT'S SATISFACTION IN UNIVERSITY UTARA MALAYSIA, KEDAH.

By

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Thesis submitted to
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ABSTRACT

Theoretically, education can be considered as one of important and fruitful investment that all the time rewards in numerous ways. The strong and effective educational systems results in the greater performance of the students. Based on Muhamd, Rizwan and Ali (2010) state "the educational institutions where the system is affective and administration is willing to provide the quality services always enjoy more incoming of brilliant and talented students." Student paying fee tuition in higher education, they deserve to get something in high quality that suits with the value of money paying for tuition fee. The level of satisfaction among the student being as a scale in measuring whether HEI afford to deliver or provided services, technology, and facilities in effective ways. This study empirically examines the relationship between campus services, technology, and campus facilities and students' satisfaction and which factors impact on student's satisfaction in University Utara Malaysia, Kedah. The sample size in this study was 377 undergraduate student of UUM.

The result of this study shown the positive relationship between campus services, technology, and campus facilities and students' satisfaction, but only campus services is significant with students' satisfaction.

ABSTRAK

Pendidikan bolehdianggap sebagai salah satu pelaburan penting dan bermakna kerana mampu memberi ganjaran dalam pelbagai cara. Sistem pendidikan yang kukuh dan berkesan menyebabkan pretasi pelajar semakin meningkat.BerdasarkanMuhamad, Rizwan, dan Ali (2010) menyatakan institusi di mana sistem pendidikan lebih efektif akan melahirkan ramai pelajar yang cemerlang dan berbakat. Selain itu, pelajar juga membayar yuran pengajian, oleh itu mereka berhak mendapatkan sesuatu yang berkualiti daripada nilai wang yang dilaburkan. Tahap kepusan dalam kalangan pelajar digunakan sebagai penanda di mana institusi tahap kecekapan institusi akan diukur. Kajian ini dijalankan bagi mengkaji hubungan di antara perkdidmatan kampus, teknologi, dan kemudahan kampus dan kepuasan pelajar, dan turut mengkaji faktor yang memberi kesan kepada kepuasan pelajar di Universiti Utara Malaysia (UUM), Kedah.Jumlah responden dalam kajian ini ialah 377 orang pelajar sarjana muda di UUM.

Hasil kajian menunjukkan hubungan yang positif antara pekhidmatan kampus, teknologi, dan kemudahan kampus, tetapi hanya perkdidmatan kampus yang memberi impak terhadap kepuasan pelajar.

Keywords: Campus Services, Technology, Campus Facilities, Students' Satisfaction

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CHAPTER ONE

INTRODUCTION

1.1 Background of study

Theoretically, education can be considered as one of important and fruitful investment that all the time rewards in numerous ways. The strong and effective educational systems results in the greater performance of the students. Based on Muhamd, Rizwan and Ali (2010) state "the educational institutions where the system is affective and administration is willing to provide the quality services always enjoy more incoming of brilliant and talented students." Additionally, in order to make the institution progressive and effective the knowledge of students' expectations, academic preference and quality perception about the educational environment should be kept by the higher authorities of the institute (Palacio, Meneses, and Perez, 2002). Particularly the students who are at a higher academic level, for example, likes studying in higher educational institution seek more quality of education and perfection of the system provided at study place because it satisfies their esteem and develops them with all the essential and capabilities to be a high ability student that able to build self confidences, able to work in team, and so on. LeBlanc and Nguyen (1997) state "the effectiveness of administration and management of higher educational institution, they facilitate the students with quality assurance and personality grooming so that the students can take maximum out of it."

Subsequently, higher education institution (HEI) as services provider they should be responsive to student requirements. According to Watson (2003) and Narasimhan (2001) state that fee-paying students may expect "value for money" and they want to be treat like a customer of the HEI. As students are increasingly seen as customers of higher

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REFERENCES

- Ababio, K. A., Aidoo, Eric. N. A., &Korankye, T. (2012). Modeling student's satisfaction with library services in a tertiary institutions: Evidence from Kumasi Polytechnic, *Information and Knowledge Management*, 2(6), 85-94.
- Abdulkafi, A. (2006). Teachers' attitudes toward information and communication technologies: The case of Syrian Efl teachers, *Journal for Computers and Education*, 47(4). Academic Affair Department University Utara Malaysia.

 Retrieved on December 10, 2014 from http://hea.uum.edu.my/.
- Adetunji, O. S. (2014). Students-centred methods of teaching architecture students theory of structures in Nigeria Universities, *International Journal of Education and Research*, 2(10), 437-444.
- Adnan, Y. M., and Aini, A. M. (2006). Sharing the Initial Experience of Implementation of Problem Based Learning (PBL) at the Department of Estate Management,

 Faculty of Built Environment, University of Malaya, Proceedings the Second Annual BuiltEnvironment Education Conference, BEECON 2006, London, 12-13th September 2006.

- Ageel, M., and John, W. (2012). Enhancing university teaching's information and communication technology usage by using virtual learning environment training course, *Proceeding of INTED Conference*.
- Ahmed, M., and Anwar, S. F. (2000). Bridging the Gap between Expectations of the BusinessCommunity and Delivery of the Business Schools in Bangladesh, *Journal of the Business Administration*, 26, 47-66.
- Aina, L. O. (2004). Library and information science text of Africa. Ibadan: Third World Information Services.
- AliReza, J., Aminul, I., and Ku, H. K. A. (2011). Service satisfaction: the case of a higher learning institution, *International Educational Studies*, 4(1), 182-192.
- Almalki, G., and Williams, N. (2012). A strategy to improve the usage of ICT in the Kingdom of Saudi Arabia primary school, *International Journal of Advanced Computer Science and Application*, 3(10).
- Anderson, E. W., Fornell, C., and Rust, R.T. (1997). Customer satisfaction, productivity and profitability: differences between goods and services, Marketing Science, 16(12), 129-145.

- Anderson, W. S., Baggett L. S., and Widener, S. K. (2007). The impact of service operation failures on customer satisfaction: Evidence on how failures and their sources affect what matters to customers, *Manufacturing & Service Operation Management*, 11, 52-69.
- Artino, A. R. (2007). Online military training: Using a social cognitive view of motivation and self-regulation to understand students' satisfaction, perceived learning, and choice, *Quarterly Review of Distance Education*, 8(3), 191-202.
- Asaduzzaman, Moyazaaem, H., Mahabubur, R. (2013). Service quality and student satisfaction:a case study on private universities in Bangladesh, *International Journal of Economics and Finances Management Sciences*, 1(3), 128-135.
- Awais, M. B., Hee, H. C., & Veera, K. S. (2012). A guide for beginners: Data analysis using SPSS and AMOS, Malaysia: PEARSON.
- Ball, C. (1989). Towards an enterprising culture. Paris: OEDC/CERI.
- Balsas, C. J. L. (2006). Transportation and sustainable campus communities: Issues, examples, solution, Journal of the American Planning *Association*, 72(3), 369-370.

- Banning, J. H. (1990). The physical environment of the college classroom: an instructional aid, *Campus Ecologist*, 11(4).
- Bansal, R. K., Gupta, V., and Malhotra, R. (2010). Performance Anlaysis of Wired and Wireless LAN using soft Computing Technique A review, 10(8), 67-17.
- Banwet, D. K., Datta, B. (2003). A study of the effect of perceived lecture quality onpost-lecture intentions, *Work Study*, 52(5).
- Bernhard, A. (2012). Quality assurance in an international higher education area: a case study approach and comparative analysis. Germany: Springer Fachmedien.
- Berry, L. L., (1995). Relationship Marketing of Services-Growing Interest, Emerging Perspectives, *Journal of The Academy Of Marketing Science*, 23(4), 236-245.
- Borden, V. M. (1995). Segmenting student markets with a student satisfaction and priorities survey, *Research in Higher Education*, 36(1), 73-88.
- Brenders, D., Hope, P., and Ninnan, A. (1999). A systematic student-centered study of University service, *Research in Higher Education*, 40, 665-685.
- Brewer, P. and Carnes, L. (2008). The perceived impact of physical facilities on the student learning environment, *Business Education Digest*.

- Cadotte, E. R., and Turgeon, N. (1988). Dissatisfiers and satisfiers: suggestions for consumer complaints and compliments, *Journal of Consumer Satisfaction*, *Dissatisfaction and Complaining Behavior*, 1, 74-79.
- Carlzon, J. (1989). Moment of truth, Harper Collins, New York, NY.
- Chandrasekar, K., & Murugathas, K. (2012). An assessment of user satisfaction on library services: a case study of undergraduate biology at the University of Jaffna,

 **Journal of the University Librarians' Association of Sri Lanka, 16(1), 34-45.
- Chase, R. B. (1978). Where does the customer fit in a service operation?, *Harvard BusinessReview*, 56(6), 137-142.
- Coakes, S. J. (2013). SPSS version 20.0 for windows: Analysis without anguish, China: WILEY.
- Cohen, J., Cohen, P., West, S.G., & Aiken, L.S. (2003). Applied multiple regression/correlation analysis for the behavioral sciences (3rd Ed), Mahwah, NJ: Lawrence ErlbaumAssociates.
- Collins, A., and Halversonm R.(2009). Rethinking education in the age of technology:

 The Digital Revolution and Schooling in America. New York: Teachers College

 Press.

- Corts, D. P., Lounsbury, J. W., Saudargas, R. A., and Tatum, H. E. (2000). Assessing

 Undergraduate Satisfaction With An Academic Department: A Method and Case

 Study, *College Student Journal*, 34 (3), 399-410.
- Cuseo, J. (2003). Academic advisement and student retention empirical connections and Systematic interventions. Retrieved December 10, 2014 from http://www.nc-access.info/Advisement_Retention_Cuseo.pdf.
- Cuthbert, P. F. (1996). Managing service quality in HE: is SEVQUAL the answer? Part two, *Managing Service Quality*, 6(3), 31-35.
- Daisy, S. (2006). Measuring user satisfaction: a case study at the PDGM branch library at Peradeniya, *Journal of the University Librarians' Association*, 10, 40-53.
- Dale, B. G. (2003). Managing Quality. 4th Ed. Blackwell Publishing, Oxford.
- Davis, B. (1993). Tools of teaching. San Francisco: Jossey-Bass.
- Department of Statistic Malaysia. (2014). Principal of labor force Malaysia, October 2014. Retrieved on December 16, 2014 from http://www.statistics.gov.my.
- DeShields, O. W., Kara J. A., and Kaynak, E. (2005). Determinants of business students' satisfaction and retention in higher education: applying Herzberg's two factor theory, *International Journal of Educational Management*, 19(2), 128-139.

- Disney, J. (1998). Competing through quality in transport services, Managing Service

 Quality: An International Journal, 8(2), 112-118.
- Doris, U., Bolliger, & Oksana, W. (2009). Factor influencing faculty satisfaction with online teaching and learning in higher education, *Distance Education*, 30(1), 103-116.
- Douglas, J., Douglas, A., and Barnes, B. (2006). Measuring student satisfaction at a UK University, *Quality Assurance in Education*, 14(3), 251-267.
- Elliot, K. M., & Shin, D. (2002). Student satisfaction: an alternative approach to accessing thisimportant concept, *Journal of Higher Education Policy & Management*, 24(2), 197-209.
- Evans, J. R., & Collier, D. A. (2007). Operation Management: An integrated goods and servicesapproach, Singapore: SOUTH-WESTREN.
- Eyck, R., Tews, M., &Ballester, J. M. (2009). Improved Medical Student Satisfaction and TestPerformance With a Simulation-Based Emergency Medicine Curriculum: A Randomized Controlled Trial, Paper presented at the ACEP 2008 Research

 Forum, October 2008, Chicago, IL.

- Fahad, N. A. (2012). Effectiveness of using information technology in higher education in SaudiArabia, *Procedia Social and Behaviroal Sciences* 46, 1268-1278.
- Farahiza, Z. A. (2010). Blended learning in higher education institution in Malaysia,

Proceedings of Regional Conference on Knowledge Integration in ICT, 454-466.

Science, 52, 11412-11416.

- Fauzia, K., & Mahek, A. (2012). Student satisfaction with campus facilities, *Elixir Social*
- Firdaus, A. (2005). The development of HEdPERF: a new measuring instrument of services quality of higher education sector. Paper presented at the Third Annual Discourse PowerResistance Conference: *Global Issues Local Solutions*, 5-7.
- Firdaus, A. (2006). Measuring service quality in higher education: HEdPERF versus SERVPERF, *Marketing Intelligence & Planning*, 24(1), 31-47.
- Galloway, L. (1998). Quality perceptions of internal and external customers: a case study ineducational administration, *TQM Magazine*, 10, 20-26.
- Garver, M. S. (2009). A maximum difference scaling application for customer satisfactionresearchers, *International Journal of Market Research*, 5(4), 481-500.

- Giese, J. L., & Cote, J. A. (2000). Defining consumer satisfaction, *Academy of Marketing Science Review*.
- Gosiff, P. (2009). Service system and requisite variety, Naples Forum on Service: SDL, ServiceScience, and Network Theory, 1-13.
- Greenstein, D., & Healy, L. (2002). National survey documentation of internet use on libraries, CLIR Issues, 27, 4-12.
- Greenwood, G. (2003). Benchmarking a Wireless Network, Master Thesis, Jacksonville

 StateUniversity. Retrieved on December 10, 2014 from

 http://mcis.jsu.edu/studio/LiteratureReview.doc.
- Griffin, T. (1990). The physical environment of the college classroom and its affect on students, *Campus Ecologist*, 8(1).
- Gronroos, C. (1989). Defining marketing: A market-oriented approach, *European Journal of Marketing*, 23(1), 52-60.
- Gruber, T., Fub, S., Voss, R., and Glaser-Zikuda, M. (2010). Examining student satisfaction withhigher education services: Using a new measurement tool, International Journal of Public Sector Management, 23(2), 105-123.

- Guolla, M. (1999). Assessing the teaching quality to student satisfaction relationship: appliedcustomer satisfaction research in the classroom, *Journal of Marketing Theory and Practice*, 7(3), 87-96.
- Gunawardena, G. N. (1995). Social presence theory and implications for interaction and collaborative learning in computer conferences, *International Journal of Educational Telecommunication*, 1(2), 147-166.
- Hasnain, M. (2013). Measuring student satisfaction in public and private Universities in Pakistan, Global Journal of Management and Business Research

 Interdisciplinary, 13(3), 5-16.
- Helfert, G., Ritter, T., & Walter, A. (2002). Redefining market orientation from a relationshipperspective: Theoretical consideration and empirical results, *European Journal of Marketing*, 36(9/10), 1119-1139.
- Hill, F. M. (1995). Managing service quality in higher education: the role of student as primaryconsumer, *Quality Assurance in Education*, 3, 10-21.
- Hill, M. C., and Epps, K. K. (2010). The impact of physical classroom environment on studentsatisfaction and student evaluation of teaching in the university environment, *Academyof Educational Leadership Journal*, 14(4), 65-79.

- Holley, R. P., & Powell R. R. (2004). Student satisfaction with electronic library resources at Wayne State University, *Journal of Access Services*, 2(1), 41-62.
- Holmes, B., and Gardner, J. E-learning: Concepts and practice. Retrieved on December 10, 2014from blog.files.wordpress.com/2013/02/e_learning_concepts-chap2.pdf.
- Jamelske, E. (2009). Measuring the impact of a university first-year experiences program onstudent GPA and retention, *Higher Education*, 57(3), 373-391.
- Johns, N. (1999). What is thinh call service?, *European Journal of Marketing*, 33(9/10), 958-974.
- Joppe, M. (2000). The research process. Retrieved December 10, 2014 from http://www.ryerson.ca/~mjoppe/rp.htm.
- Jubb, M., and Green, R. (2007).Researchers' use of Academic Libraries and their Services.Retrived December 10, 2014 from http://www.rin.ac.uk/system/files/.../Researchers-libraries-services-report.pdf.
- Kaminski, K., Switzer, J., and Gloeckner, G. (2009). Workforce readiness: A study of university students' fluency with information technology, Computers and Education, 53, 228-233.

- Karlin, R. A., Rosen, L.S., & Epstein, Y. M. (1979). Three into two doesn't go: A follow-up on the effects of overcrowded dormitory rooms, *Personality and Social PsychologyBulletin*, 5(3), 391-395.
- Kellogg, D. L. and Nie, W. (1995). A framework for strategic service management, *Journal of Operations Management*, 13(4), 323-337.
- Kim, W. (2007). Towards a definition and methodology for blended learning
- Koprowski, G. J. (2006). Third generation wireless technology generates massive global growth, TechNewa World. Retrieved on December 15, 2014 from http://www.technewsworld.com/story/51493.html.
- Kostakis, A. P. (2009). Measuring customer satisfaction in public transportation: An Empirical study based in urban buses in the city of Larissa (Greece) – The MUSA Methodology,260-275.
- Kosto, J. A. (2010). Assessment of library use by the lecturers of college of Education Akwanga, The Information Manager, 10(1&2), 48-54.
- Kotler, P., Armstrong, G., Ang, S.H., Leong, S. M., Tan, C. T., & Hon-Ming, O.Y. (2009). Principle of marketing: A global perspective, Singapore: PEARSON.

- Kotler, P., and Fox, K. F. A. (1995). Strategic marketing for educational institutions (2nd ed.), Englewood Cliffs, NJ: Prentice-Hall
- Kotler, P. and Keller, K. L. (2009). *Marketing management* (13thed). New Jersey. Pearson Education Inc, Upper Saddle River.
- Kotler, P., Keller, K. L., Ang, S. H., Leong, S. M., & Tan, C. T. (2012). Marketing

 Management: An Asian Perspective (6th ed), Singapore: PEARSON.
- Kroenke, D. M. (2013). Using MIS (5thed), England: PEARSON.
- Kuo, Y. C., Walker, A., Belland, B. R., & Schroder, K. E.E. (2013). A predictive study of student satisfaction in online education programs, *The International Review of Researchin Open and Distance Learning*, 14(1), 17-39.
- Kuuskorpi.K., and Gonzales, N. C. (2011). The future of the physical learning environment:School facilities that support user. Retrieved on December 10, 2014 from http://www.oecd.org/edu/innovation- education/centreforeffectivelearningenvironmentscele/49167890.pdf.
- LeBlanc, G., and Nguyen, N. (1997). Searching for excellence in business education: an exploratory study of customer impressions of service quality. *International Journal of Educational Management*, 11(2), 72-79.

Library University Utara Malaysia (UUM).Library facilities. Retrieved on December 15, 2014 from

http://cmslib.uum.edu.my/new/index.php/en/all-about-library/library-facilities.

- Lindvall, M., & Russ, I. (2003). Knowledge management for software organization,

 Managing Software Engineering Knowledge.
- Long, C. S., Zaiton, I., and Kowang, T. O. (2013). An analysis on the relationship

 Betweenlecturers' competencies and student satisfaction, *International Education Studies*, 7(1),37-46.
- Lovelock, C. H. (1983). Classifying services to gains strategic marketing insights, *Journal* of Marketing, 47(3), 9-20.
- Lovelock, C. H., &Gummeson, E. (2004). Whither services marketing?: In search of a newparadigm and fresh perspective, Journal of Service Research, 7(1), 20-3, 20-41.
- Lovelock, C. H, & Wright, L. (1999). Principles of Services Management and Marketing.

 London: Prentice Hall.

- Mamus, M. Z., and Das, S. (1999). Total quality management for Non-Government

 Universities of Bangladesh, *Proceedings of Annual Convention of Bangladesh*Society for Total Quality Management in Association with Department of

 Industrial and Production Engineering, BUET, December 3-4, 23-29.
- Marinakou, E. (2014). An investigation of Factors That Contribute to Student Satisfaction FromOnline Courses: An Example of an Online Accounting Course, *US-China Education Review*, 4(8), 536-547.
- Marmolejo, F. Gonzales, R., Gersberg, N., Nenonen, S., and Calvo-Sotelo, P. C. (2007).

 Higher education facilities: issued and trends, *PEB Exchange, Programme on Educational Building*, 2007/01, OEDC Publishing.
- Mason, J. C. (1992). Business schools: striving to meet customer demand, *Management Review*,81(9), 10-14.
- McRoy, L., and Ginns, P. (2009). Leading change in higher education, *Educational Management Administration & Leadership*, 37(5), 687-704.
- Michael, S. O. (1997). American higher education system: consumerism versus professorialism, *The International Journal of Educational Management*, 11(3), 117.

- Mohamad, I. R., Asliza, Y., Wan, N. S., Wan, E. J., &Adi, H. T. (2014). Factors influencing unemployment among graduates in Malaysia An overview, *Journal of Economics and Sustainable Development*, 5(11), 168-173.
- Mohr, L. R., and Bitner, M. J. (1995). The role of employee effort in satisfaction with servicetransactions, Journal of Business research, 32(2), 239-252.
- Moore, M. G., &Kearsley, G. (1996). Distance education: A systems view. New York, NY:Wardsworth.
- Muhammed, E. M., Rizwan Q. D., & Ali, U. (2010). The impact of service quality on student's satisfaction in higher education institute of Punjab, *Journal of Management Research*, 2(2), 1-11.
- Munawar, K. M., Ahmed, I., and Musarrat, N. M. (2011). Students' perspective of servicequality in Higher Learning Institution: An evidence based approach, *International Journal of Business and Social Science*, 2(11), 159-160.
- Nauman, A., Ali, M., Imran, S. C., & Muhammad, I. (2011). A study on students' satisfaction in Pakistani Universities: The case of Bahauddin Zakariya University, Pakistan, *Asian Social Science*, 7(7), 209-219.

- Narasimhan, K. (2001). Improving the climate of teaching sessions: the use of evaluations by students and instructors, *Quality in Higher Education*, 7(3), 179-190.
- Neumann, F. (1994). Course work characteristics and students' satisfaction with instruction, *Journal of Instructional Psychology*, 21(1), 14-24.
- Nurita, Shaharudin&Ainon. (2004). Perceived employability skills of graduating students Implications for SMEs.
- Nwalo, K. I. N. (2003). Fundamentals of library practice: A manual on library routines.

 Ibadan:StirlingHorden Publishers.
- Nyakudya, M. N. (2012). Wireless technology diffusion within higher education institutions: Determining the levels of student satisfaction, *International Journal of Engineering andManagement Sciences*, 3(1), 13-23.
- Oblinger, D. (2005). Leading the transition from classrooms to learning spaces, *Educause Quarterly*, 1, 14-18.
- Oldfield, B. M., & Baron, S. (2000). Student perceptions of services quality in a UK

 Universitybusiness and management faculty, *Quality Assurance in Education*,
 8(2), 85-95.

Oliver, R., and Desarbo, W. S. (1989). Processing of the satisfaction response in a suggestedframework and research proposition, *Journal of Consumer Satisfaction*, *Dissatisfaction, and Complaining Behavior*, 2, 1-16.

Ortega, M. (2000). Computers in education: The near future. Boston, MA: Kluwer AcademicPublishers.

Owlia, M. S. and Aspinwall, E. M. (1997). TQM in higher education – a review, International Journal of Quality & Reliability Management, 14(5), 527-543.

Palacio, A. B., Meneses, G.D., and Perez, P. J. P. (2002). The configuration of the university image and its relationship with the satisfaction of students, *Journal of Educational Administration*, 40(5), 486-505.

Palmer, A. (2011). Principles of services marketing (6thed.). Maidenhead: McGraw-Hill.

Parsad, B., & Lewis, L. (2008). Distance education at degree-granting postsecondary

institutions:2006-07 (NCES 2009-004). Washington, DC: U.S. Department of

Education, NationalCenter for Education Statistics, Institute of Education

Sciences.

Patterson, P. G., and Johnson, L. W. (1993). Disconfirmation of expectations and the model of service quality: An integrated paradigm, *Journal of Satisfaction*,

Dissatisfaction, and Complaining Behavior, 6, 90-99.

Perkins, D. (2005). The case for a cooperative studio classroom: Teaching Petrology in a Different Way, Journal of Geoscience Education, 53(1), 101-109.

Petry, M. (1996). Marketing, 2000: myth or reality? An analysis of the evolution of modernmarketing and of the latest developments in theoretical and practical marketing both inbusiness and in European MBA programmes: a functional and terminological study, Doctoral thesis, Vienna University of Economics and Business Administration.

Pillai, S. (2009). University Industry Partnership – ASAIHL 2009, University of Kelaniya, SriLanka.

Ponsignon, F. Service delivery system: a business process perspective. Retrieved on December10, 2014 from http://www.poms.org/conferences/cso2007/talks/44.pdf. Popoola, S. O. (2001). Faculty awareness about information products and services in

NigerianUniversities, Gateway Library Journal, 4(1&2), 1-10.

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- Porturak, M. (2014). Private universities service quality and students satisfaction, *Global Business and Economics Research Journal*, 3(2), 33-49.
- Puzziferro, M. (2008). Online technologies self efficacy and self-regulated learning as predictors of final grade and satisfaction in college-level online courses,

 American Journal of Distance Education, 22(2), 72-89.
- Reid, S. (2002). The integration of information and communication technology into classroomteaching, *Alberta Journal of Educational Research*, 48(1), 30-46.
- Report to the European commission on: Improving the quality of teaching and learning in Europe's higher education institutions. (2013). Retrieved on December 10, 2014 fromww.c.europa.eu/education/library/reports/modernisation_en.pdf.
- Rhema, A., Miliszewska, I., &Sztendur, E. M. (2013). Attitudes towards e-learning and satisfaction with technology among Engineering Students and Instructors in Libya, *Proceedings of Informing Science & IT Education Conference (InSITE)*, 158-171.
- Richards, J. C. (2006). Communicative language teaching today (1sted.). Singapore: UniversityPress.

- Riha, C. (2006). Growth of wireless technology in healthcare institutions, Biomedical InstrumentTechnology, 43-45.
- Rodie, A. R., & Klein, S. S. (2000). Customer participation in services production and delivery. In T. A. Swartz & D. Iacobucci (Eds.), *Handbook of service marketing* and management, 111-126. Thousand Oaks, CA: Sage Publications, Inc.

Rogers, G. and Edwards, J. (2003). Introduction to wireless technology, Upper Saddle River, NJ:Prentice Hall.

Roscoe, J. T. (1975). Fundamental research statistics for the behavioral sciences, 2nded.

New York: Holt, Rinehart and Winston.

Rossett, A., Douglis, F., & Frazee, R. V. (2003). Strategies for building blended learning.

Learning Circuits.

- Sasser, E. W., Olsen, P. R., and Wyckoff, D. D. (1978). Management of service operations: Textcases, and readings. Allyn& Bacon: Boston, MA.
- Scoot, S. V. (1999). The academic as service provider: as the customer "always right"?, *Journal of Higher Education Policy and Management*, 21(2), 193-202.

- Seaberry, B. J. (2008). A case study of student and faculty satisfaction with online courses at a community college (Unpublished doctorial dissertation, University of California, AAT3329585).
- Sekaran, U., &Bougie, R. (2013). Research Methods for Business: A skill-building approach (6thed), Italy: WILEY.
- Selnes, F. (1993). An examination of the effect of product performance on brand reputation, satisfaction, and loyalty, *European Journal of Marketing*, 27(9), 19-35
- Shank, M. D., Walker, M., and Hayes, T. (1995). Understanding professional service expectations: do we know what our students expect in a quality education?,

 **Journal of Professional Services Marketing, 13(1), 71-83.
- Shea, P. J., Pickett, A. M., and Pelz, W. E. (2003). A follow-up investigation of "teaching presence" in the SUNY learning network, *Journal of Asynchronous Learning*Networks, 7(2), 61-80.
- Shin, N, Jonassenm D., and Mcgee, S. (2003). Predictors of well-structured and ill-structured problem solving in an astronomy simulation, *Journal of Research in Science Teaching*, 40(1), 6-33.

- Shostack, G. L. (1982). How to design a service, European Journal of Marketing, 16(1), 49-63.
- Shostack, G. L. (1987). Service positioning through structural change, Journal of Marketing,51(1).
- Silvestro, R., Fitzgerald, L., Johnston, R., and Voss, C. (1992). Towards a classification of service processes, International Journal of Service Industry Management, 3(3), 62-75.
- Singh, M. R. P. Concept and nature of service. Retrieved on December 10, 2014 from http://www.ddegjust.ac.in/studymaterial/mba/mm-411.pdf.
- Sivathaasan, N. (2013). Satisfactory level of undergraduate students with academic library: Acase study of faculty of Management Studies and Commerce,

 University of Jaffna, SriLanka, *Global Journal of Management and Business*Research Administration and Management, 13(5), 63-69.
- Slack, N., Lewis, M., and Bates, H. (2004). The two worlds of operations management Researchand practice: Can they meet, should they meet?, International Journal of Operation & Production Management, 24(4), 372-387.

- Soria, K. M., Fransen, J., &Nackerud, S. N. (2013). Library use and undergraduate outcomes: New evidence for students' retention and academic success, *Libraries and the Academy*, 13(2), 147-164.
- Stukalina, Y. (2012). Indentifying predictors of students satisfaction and student motivation in the framework of assuring quality in the delivery of higher education services, *BusinessManagement and Education*, 12(1), 127-132.
- Swan, K., Shea, P., Fredericksen, E., Pickett, A., Pelz, W., and Maher, G. (2000).

 Buildingknowledge building communities: Consistency, contact, and

 communication in the virtual classroom, *Journal of Educational Computing*Research, 23(4), 389-413.
- Swan, K. (2001). Building learning communities in online courses: the important of interaction, *Distance Education*, 2(1), 25-29.
- Tang, S. F., and Hussin, S. (2011). Quality in Higher Education: A variety of stakeholder perspectives, *International Journal of Social Science and Humanities*, 1(2).
- Tax, S. S., and Stuart, I. (1997). Designing and implementing new services: The challenges of of of the service systems, *Journal of Retailing*, 73(1), 105-134.

- Taylor, B. D, Miller, D., Iseki, H., & Fink, C. (2008). Nature and/or nurture? Analyzing the determinants of transit ridership across US urbanized areas, Transportation Research PartA, Article in Press, 1-18.
- 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.
- Theall, M., and Franklin. (2001). Looking for bias in all the wrong places A search for truth or a witch hunt in student ratings of instruction? In the student ratings debate: Are they valid? How can we best use them? Theall, P., Abrami, L., and Lisa, M. (Eds) New Directions in Educational research, no. 109. San Francisco: Jossey-Bass.
- Thomas, E. C. (2005). No strings attached: The benefits of choosing a wireless LAN for today's for today's University, *Journal of Applied Business Research*, 20(4).
- Tonks, D., and Farr, M. (1995). Market segments for higher education: using geodemographics, *Marketing Intelligence & Planning*, 13(4), 24-37.
- Tyrinopoulos, Y., and Antoniou, C. (2008). Public transit user satisfaction: Variability and policyimplications, *Transport Policy*, 15(4), 260-272.

- Wan, N. M., Mohamad, R. M. D., and Kairul, A. M. A. (2014). Investigating students' satisfaction level on implicit services of Malaysia Public Higher Education

 Institutions, *Gading Business and Management Journal*, 18(1), 41-59.
- Wang, Q. Y., Cheung W.S. (2008). Student-facilitators' roles of moderation online discussions. *British Journal of Educational Technology*, 39(5), 859-874.
- Wall, G., and McDonald, M. (2007). Improving bus service quality and information in Winchester, *Transport Policy*, 14(2), 165-179.
- Warkentin, M. E., Sayeed, L., and Hightower, R. (1997). Virtual teams versus face-to-face teams: An exploratory study of a Web-based conference system, *Decision Science* 28, (4), 975-996.
- Watson, S. (2003). Closing the feedback loop: ensuring effective action from student feedback, *Tertiary Education and management*, 9, 145-157.
- Weaver, T. (1976). What is good of higher education?, *Higher Education Review*, 8, 3-14.
- Wentzel, P., Lammeren, V., Molendijik, M., DeBruin, S., &wagtendonk, A. (2005).

 UsingMobile Technology to Enhance Students Educational Experiences, Case study fromEDUCAUSE Center for Applied Research.

- Wei, S. L. (2011). Proceeding of the International Conference on Social Science, Economics, and Art 201. Hotel Equatorial Bangi-Putrajaya, Malaysia, 14-15 January 2011 ISBN 978-983-42366-5-6.
- Wiers-Jenssen, J., Stensaker, B., & Grogaard, J. B. (2002). Student satisfaction: towards

 Anempirical deconstruction of the concept, *Quality in Higher Education*, 8(2),

 183-195.
- Witowaki, L. (2008). The relationship between instructional delivery methods and Studentslearning preferences: What contributes to students' satisfaction in an online learning environmental? Ph.D Dissertation, Cappela University.
- Yang, Y., & Cornelius, L. F. (2004). Student's perceptions towards the quality of online education: A qualitative approach. *Paper presented at the Association for EducationCommunications and Technology* 27th Conference, USA.
- Yasmin, A., Nasir, D., Anuar, A., and Muhammad, N. R. (2012). Importance of soft skills forgraduates in the Real Estate Programmes in Malaysia, *Journal of Surveying & Property*, 3(2), 1-13.

- Yousef, M., and Hamideh, Z. (2013). Student satisfaction at Osmania University,

 International Journal of Advancements in Research & Technology, 2(6),

 233-240.
- Zahayu, M. Y., Masnita, M., Pei, L. P., &Tian, H. T. (2014). Factors affecting students' satisfaction towards bus services in University, *Research Journal of Applied Sciences*, *Engineering and Technology*, 8(7), 817-822.
- Zeithaml, V. A. (1988). Consumer perception of price, quality and value: a means-end modeland synthesis of evidence, *Journal of Marketing*, 52(3), 2-22.
- Zeithaml, V. A., Parasurman, A., and Berry, L. L. (1985). Problems and strategies in servicemarketing, *Journal of Marketing*, 49(2), 33-36.
- Zeithaml, V. A., Berry, L. L., &Parasurman, A. (1993). The nature and determinants of customer expectations of service, *Journal of Academy of Marketing Science*, 21(1), 1-12.
- Zeithaml, V. A., Gremler, D. D., &Bitner, M. J. (2009). Services marketing: integrating customer focus across the firm (5th ed.). London: McGraw-Hill.
- Zeng, W. Y., and Perris, K. (2004). Researching the efficacy of online learning:

 A collaborative effort amongst scholars in Asian open universities, *Open Learning*, 193, 247-264.