

**FACTORS INFLUENCING POSTGRADUATE
STUDENT SATISFACTION TOWARDS NON-
ACADEMIC STAFF BEHAVIOUR IN UUM**

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By

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**Dissertation Submitted to
Othman Yeop Abdullah Graduate School of Business,
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ABSTRACT

This research examines the influence of responsiveness, reliability and assurance among non-academic staff behaviour in UUM on the outcomes of postgraduate student satisfaction. Few empirical studies have addressed the students satisfaction in UUM but most of the studies thus far only talks about student's satisfaction in general (regardless of undergraduate and postgraduate), thus this research looks into postgraduate student satisfaction (Dependent Variable) and aspects on Non-Academic Staff behaviour in specific. A total of 400 questionnaires was distributed to Postgraduate students in UUM, Sintok. Multiple regressions were applied on 271 completed questionnaires to the hypotheses listed in this research. The study has demonstrated that there exist a connection between non-academic staff behaviour and the level of satisfaction among the postgraduate students. The findings offer support for the value of right behaviour to achieve competitive advantage via upgrading of UUM's current service level.

Keywords: Postgraduate student satisfaction, responsiveness, reliability, assurance.

ABSTRAK

Penyelidikan ini mengkaji pengaruh responsif, kebolehpercayaan dan jaminan antara tingkah laku kakitangan bukan akademik di UUM kepada hasil kepuasan pelajar pasca siswazah. Beberapa kajian empirikal telah dilakukan terhadap kepuasan pelajar di UUM tetapi kebanyakannya kajian hanya berbincang mengenai kepuasan pelajar secara umum (tanpa mengira pelajar ijazah sarjana muda dan pascasiswazah). Kajian ini berbincang mengenai kepuasan pelajar pascasiswazah (sebagai Pembolehubah Bersandar) terhadap tingkah laku staff bukan akademik. Sebanyak 400 soal selidik telah diedarkan kepada pelajar pascasiswazah di UUM, Sintok. Analysis Regresi Berganda digunakan untuk mengkaji hipotesis terhadap 271 soal selidik. Kajian ini menunjukkan bahawa terdapat hubungan antara tingkah laku staff bukan akademik dan tahap kepuasan pelajar pascasiswazah. Hasil kajian membantu untuk meningkatkan nilai tingkah laku demi mencapai kelebihan daya saing melalui peningkatan tahap perkhidmatan semasa UUM.

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DEDICATION

To my parents M. Sivalingam and K. Rethnambal and my sisters.

TABLE OF CONTENTS

Title	Page
TITLE PAGE	i
CERTIFICATION	ii
PERMISSION TO USE	iii
ABSTRACT	iv
ABSTRAK	v
ACKNOWLEDGEMENT	vi
DEDICATION	vii
TABLE OF CONTENTS	viii
LIST OF APPENDICES	xv
CHAPTER ONE: INTRODUCTION	1
1.1 About UUM.....	1
1.2 Background of the Study	2
1.3 Problem Statement	6
1.4 Research Question	10
1.5 Research Objectives	10

1.6 Significance of Study	11
1.7 Scope of the Study.....	11
1.8 Limitations of the Study	12
1.9 Organization of the Study.....	12
CHAPTER TWO: LITERATURE REVIEW	13
2.1 Introduction	13
2.2 Student as Customer or Stakeholder	13
2.3 Student Satisfaction	14
2.4 Non-Academic Staff Behaviour	16
2.5 Support Staff and Front-Line Staff.....	17
2.6 Definition of Service	19
2.7 Service Encounter.....	21
2.8 Dimension of Non-academic Behaviour/ Service quality.....	23
2.8.1 Responsiveness	24
2.8.2 Reliability.....	25
2.8.3 Assurance.....	26
2.9 Summary of the Related Previous Researches	28
2.10 TQM in Higher Education.....	35

2.11 Conclusion.....	38
CHAPTER THREE: METHODOLOGY.....	39
3.1 Introduction	39
3.2 Research Framework.....	39
3.3 Hypotheses	40
3.3.1 Responsiveness and postgraduate student satisfaction	41
3.3.2 Reliability and Postgraduate Student Satisfaction	41
3.3.3 Assurance and Postgraduate Student Satisfaction	42
3.4 Research Design	42
3.5 Operational Definition.....	43
3.5.1 Postgraduate Student Satisfaction.....	43
3.5.2 Responsiveness	43
3.5.3 Reliability.....	44
3.5.4 Assurance	44
3.6 Measurement of Variables/Instrumentation	44
3.7 Data Collection Method	45
3.8 Population of the Study	46
3.9 Unit of Analysis.....	47

3.10 Sample Size	47
3.11 Data Collection Procedures	48
3.12 Techniques of Data Analysis.....	48
3.13 Conclusion.....	49
CHAPTER FOUR: RESULTS AND DISCUSSION	50
4.1 Introduction	50
4.2 Response Rate	50
4.3 Respondents Profile.....	51
4.4 Descriptive Statistics of the Study's Variables	54
4.5 Reliability	55
4.6 Hypotheses Testing	56
4.7 Correlation Analyses	56
4.8 Data Screening	58
4.9 Regression Analyses.....	59
4.10 Summary of Findings	62
CHAPTER FIVE: CONCLUSION AND RECOMMENDATIONS.....	64
5.1 Introduction	64
5.2 Discussion	64

5.2.1 Responsiveness and Postgraduate Student Satisfaction	65
5.2.2 Reliability and Postgraduate Student Satisfaction	65
5.2.3 Assurance and Postgraduate Student Satisfaction	66
5.3 Theoretical Implication of Study.....	66
5.4 Practical Implication of Study	67
5.5 Limitation and Recommendation for Future Research	68
5.6 Conclusion.....	68
REFERENCES.....	70
Appendix	85

LIST OF TABLE

Table	Page
Table 1.1 Frequency Of Complaints.....	7
Table 2.1 Summary Of Previous Researches.....	29
Table 3.1 Total number of Postgraduate Students in UUM.....	46
Table 4.1 Respondent Profile	52
Table 4.2 Descriptive Statistics of the Study Variables.....	54
Table 4.3 Reliability Statistics of the Study Variables.....	55
Table 4.4 Correlation Coefficient.....	57
Table 4.5 Correlations for Study Variables.....	58
Table 4.6 Multicollinearity Statistics.....	59
Table 4.7 Model Summary.....	60
Table 4.8 Result of Multiple Regression Analysis.....	61
Table 4.9 Summary of Hypotheses Testing.....	63

LIST OF FIGURES

Figure	Page
Figure 3.1 Research Framework	40

LIST OF APPENDICES

Appendix A Research Questionnaire.....	85
Appendix B Respondents' Profile.....	92
Appendix C Descriptive Statistics.....	97

CHAPTER ONE

INTRODUCTION

1.1 About UUM

Ministry of Education Malaysia announced the establishment of the sixth public university of the country in August 1983, that is Universiti Utara, Malaysia (UUM) in Kedah. UUM is one of Malaysian public universities which specialized in management education established on 16th February 1984.

The temporary UUM office was formally opened on 15th February 1984 in Jitra. After four months when the first phase of the project was completed, UUM moved to its temporary campus at Darul Aman Campus in Jitra. Darul Aman Campus located at 62-acre tract of land in Bandar Darulaman and 18 km north of Alor Setar and 4.8 km from Jitra.

15th, September 1990, a permanent campus was established on an area of 1,061 hectares in Sintok which situated about 48 km north of Alor Setar and 10 km east of Changlun, a small town along the North-South Highway, near the Malaysia-Thai border. Sintok campus is located in a previous tin mining area; it is entrenched in the lush tropical jungle valley, embraced by the blue hills, and watered by two rivers flowing through the centre of the campus. Sintok Campus was formally opened on 17th February 2004 by his Royal Highness and Chancellor Sultan Abdul Halim Mu'adzam Shah with the investment MYR580 million.

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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*, Vol. 7, No. 7.

Abdulraheem.M.A.Zabadi. (2013). Implementing Total Quality Management (TQM) on the Higher Education Institutions—A Conceptual Model. *Journal of Finance & Economics*, Volume 1, Issue 1.

Agbor, J. M. (2011). The relationship between customer satisfaction and service quality: A study of the service sectors in Uganda, *Marketing Review*, 2(1): 1-85.

Ahmed, I., Nawaz, M. M., Ahmad, Z., Ahmad, Z., Shaukat, M. Z., Usman, A., et al. (2010). Does service quality affect students' performance? Evidence from institutes of higher learning. *African Journal of Business Management*, Vol. 4(12).

Alaba, A. R., & Olanrewaju, A. K. (2012). Service quality dimensions and thesis writing among postgraduate students in south-west Nigeria. *Journal of Education and General Studies*, Vol. 1(7) pp. 188-194.

Al-Alak, A. M. B. (2009). Measuring and Evaluating Business Students Satisfaction Perceptions at Public and Private Universities in Jordan. *Asian Journal of Marketing*, 3: 33-51.

Al-Khatib, A. (2011). Total Quality Management: Applications in university management. Journal of the association of Arab universities, the number specialist No.3, 83-122. Yarmouk University, Jordan

Ali, A. Y. S., & Mohamed, A. I. (2014). Service Quality Provided by Higher Education Institutions in Somalia and Its Impact on Student Satisfaction. European Journal of Business and Management, Vol.6, No.11.

Ali, M., & Shastri, R. K. (2010). Implementation of Total Quality Management in Higher Education. Asian Journal of Business Management, 2(1), 9-16.

Alnsour, M. S., Tayeh, B. A., & Alzyadat, M. A. (2014). Using SERVQUAL To Assess The Quality Of Service Provided By Jordanian Telecommunications Sector. International Journal of Commerce and Management, Vol. 24 No. 3, pp. 209-218.

Alves, H., & Raposo, M. (2010). The Influence of University Image On Student Behaviour. International Journal of Educational Management Science And Engineering, Volume 24, Pp. 73-85.

Andrews, R., Boyne, G., & Walker, R. (2011). The Impact of Management on Administrative and Survey Measures of Organizational Performance. Public Management Review, 13(2), 227-255.

Angell, R. J., Heffernan, T. W., & Magic's, P. (2008). Service quality in postgraduate education. Quality Assurance in Education, Vol. 16 No. 3.

Archambault, L. Z. (2008). Measuring service performance, student satisfaction and its impact on student retention in private, post-secondary institutions, *Research Online. Research Online*, 3(3): 32-45.

Asree, S., Zain, M., & Razalli, M. R. (2010). Influence of leadership competency and organizational culture on responsiveness and performance of firms. *International Journal of Contemporary Hospitality Management*, Vol. 22 No. 4, pp. 500-516.

Bahadori, M.K., Sadeghifar, J., Nejati, M., Hamouzadeh, P., & Hakimzadeh, M. (2011). Assessing quality of educational service by the SERVQUAL: Model view points of paramedical students at Tehran University of Medical Science, *Technics Technologies Education Management*, 6(4): 1058-1065.

Bansal, M., Narwat, K., & Kumar, K. (2014). Factors for Improving Quality in Education Institutions. *International Conference of Advance Research and Innovation (ICARI-2014)*.

Barnes, B. R. (2007). Analysing Service Quality: The Case of Post-Graduate Chinese Students. *Total Quality Management*, Vol. 18, No. 3, 313–331.

Bodet, G. (2008). Customer satisfaction and loyalty in service: Two concepts, four constructs, several relationships. *Journal of Retailing and Consumer Services*, Volume 15, Issue 3.

Brown, R. M., & Mazzarol, T. W. (2008). The importance of institutional image to student satisfaction and loyalty within higher education. Springer Science+Business Media.

Bryman, A. & Bell, E. (2003). Business Research Method. New York: Oxford University Press.

Calvo-Porral, C., Le'vy-Mangin, J.-P., & Novo-Corti, I. (2013). Perceived quality in higher education: an empirical study. *Marketing Intelligence & Planning*, Vol. 31 No. 6, pp. 601-619.

Campatelli, G., Citti, P., & Meneghin, A. (2011). Development of a simplified approach based on EFQM model and six Sigma for implementation of TQM principles in a university administration. *Total Quality Management and Business Excellence*, 22(7), 691 - 704.

Centavo, E., Harked, M. J., Ibrahim, E. B., & Wang, L.-W. (2008). What is postgraduate marketing education for? Observations from the UK. *European Business Review*, Vol. 20 No. 6, pp. 547-566.

Chauvel, D., & Despres, C. (2002), "A review of survey research in knowledge management: 1997 2001", *Journal of Knowledge Management*, Vol. 6 No. 3, pp. 207-23.

Chowdhary, N., & Prakash, M. (2007). Prioritizing service quality dimensions. *Managing Service Quality*, Vol. 17 No. 5, pp. 493-509.

Cubillo-Pinilla, J. M., Zuniga, J., Losantos, I. S., & Sanchez, J. (2009). Factors Influencing International Students' Evaluations of Higher Education Programs. *The Journal of American Academy of Business, Cambridge*, Vol. 15.

Davis, J.A (1971). Elementary survey analysis. New York: Prentice Hall.

Dib, H., & Alnazer, M. (2013). The Impact of Service Quality on Student Satisfaction and Behavioral Consequences in Higher Education Services. *International Journal of Economy, Management and Social Sciences*, 2(6), Pages: 285-290.

Douglas, J., Douglas, A., & Barnes, B. (2006). Measuring student satisfaction at a UK university. *Quality Assurance in Education*, Vol. 14 No. 3, pp. 251-267.

Douglas, J., McClelland, R., & Davies, J. (2008). The development of a conceptual model of student satisfaction with their experience in higher education. *Emerald Group Publishing Limited*, Vol. 16 No. 1.

EL-refae, B. A. A.-a. G. A. (2012). The Relationships between Service Quality, Satisfaction, and Behavioral Intentions of Malaysian Spa Center Customers. *International Journal of Business and Social Science*, Vol. 3 No. 1.

Gallup (2013), "State of the American Workplace: Employee Engagement Insights for U.S. Business Leaders," Gallup, Inc.

Gay, L. R., Mills, G. E., & Airasian, P. W. (2005). Educational research: Competencies for analysis and application. Upper Saddle River, NJ: Prentice Hall.

Gil, I., Berenguer, G., & Cervera, A. (2007). The roles of service encounters, service value, and job satisfaction in achieving customer satisfaction in business relationships. *Industrial Marketing Management*, 37, 921–939.

Hair, J.F. Jr, Black, C.W., Babin, J.B., Anderson, R.E. and Tatham, L.R. (2006), Multivariate Data Analysis, 6th ed., Prentice-Hall, Upper Saddle River, NJ.

Hair, J.F., Sarstedt, M., Ringle, C. M., & Mena, J. A. (2012). An assement of the use of partial least squares structural equation modeling in marketing research. *Journal of the Academy of Marketing Science*, 40, 414-433.

Hanaysha, J. R. M., Abdullah, H. H., & Warokka, A. (2011). Service Quality and Students' Satisfaction at Higher Learning Institutions: The Competing Dimensions of Malaysian Universities' Competitiveness. *Journal of Southeast Asian Research* 2, Vol. 2011.

Hirmukhe, J. (2012). Measuring Internal Customers' Perception on Service Quality Using SERVQUAL in Administrative Services. Volume 2, Issue 3.

Ilias, A., Rahman, R. A., & Razak, M. Z. A. (2008). Service Quality and Student Satisfaction: A Case Study at Private Higher Education Institutions. *International Business Research*, Vol. 1, No. 3.

Ilias, A., Hasan, H. F. A., Rahman, R. A. & Yasoa, M. R (2008). "Student Satisfaction and Service Quality: Any Differences in Demographic Factors?" *International Business Research*, 1(4). 131:143.

Iro-Idoro, C. B., Ayodele, K. O., & Orija, J. I. (2014). Students Perception of Service Quality Encountered and their Future Enrichment: Implication for Academic Quality Assurance in Nigeria Polytechnics. *International Review of Management and Business Research*, Vol. 3 Issue.2.

Jager, J. d., & Gbadamosi, G. (2010). Specific remedy for specific problem: measuring service quality in South African higher education. *Higher Education*, 60, 251-267.

Jiewanto, A., Laurensb, C., & Nellohc, L. (2012). Influence of Service Quality, University Image, and Student Satisfaction toward WOM Intention: A Case Study on Universitas Pelita Harapan Surabaya. *Procedia - Social and Behavioral Sciences*, 16 – 23.

Juran, J. M., & Godfrey, A. B. (1999). *Juran's Quality Handbook*. New York: McGraw- Hill.

K.Banwet, D., & Datta, B. (2003). A study of the effect of perceived lecture quality on post-lecture intentions. Volume 52,Number 5.

Kayastha, A. (2011). A study of graduate student satisfaction towards service quality of universities in Thailand. *Contemporary Research in Education*, 2(2): 1-98.

Khan, M. M., Ahmed, I., & Nawaz, M. M. (2011). Student's Perspective of Service Quality in Higher Learning Institutions; An evidence Based Approach. *International Journal of Business and Social Science*, Vol. 2 No. 11.

Kotler, P. & Armstrong, G. (2011). *Principals of marketing*. (13th ed.). Upper Saddle River: Pearson

Krejcie, R. V., & Morgan, D. W. (1970). Determining Sample Size For Research Activities. *Educational And Psychological Measurement*, 30, 607-610.

Kumar, M., Talib, S. A., & Ramayah, T. (2013). *Business Research Methods*. Oxford New York.

Kunai, G. M., Khan, M. S., & Qurush, Q. A. (2014). Impact of Service Quality on Customer Satisfaction in Higher Education Institutions. *Industrial Engineering Letters*, Vol.4, No.3.

Lagrosen, S., and, R. S.-H., & Leitner, M. (2004). Examination of the dimensions of quality in higher education. *Quality Assurance in Education*, Volume 12, Number 2, pp. 61-69.

Lakhe, R. R., & Mohanty, R. P. (1995). Understanding TQM in service systems. International Journal of Quality & Reliability Management, Vol. 12 No. 9, pp. 139-153.

Lee, H., Lee, Y., & Yoo, D. (2000). The Determinants Of Perceived Service Quality And Its Relationship With Satisfaction. VOL. 14 NO. 3, pp. 217-231.

Lind, D. A., Marchal, W. G., & Wathen, S. A. (2013). Basic statistics for business and economic (8th ed.) McGraw-Hill Education (Asia)

Ling, K. C., Chai, L. T., & Piew, T. H. (2010). The ‘Inside-out’ and ‘Outside-in’ Approaches on Students’ Perceived Service Quality: An Empirical Evaluation. Management Science and Engineering, Vol. 4, No. 2.

Mahmud, Z. (2008). Handbook of research methodology. University Publication Centre (UPENA).

Malik, M. E., Danish, R. Q., & Usman, A. (2010). The Impact of Service Quality on Students’ Satisfaction in Higher Education Institutes of Punjab. Journal of Management Research, Vol. 2, No. 2.

Malik, M. E., Danish, R. Q., & Usman, A. (2010). The Impact of Service Quality on Students’ Satisfaction in Higher Education Institutes of Punjab. Journal of Management Research, Vol. 2, No. 2: E10.

Ministry of Education Malaysia's Official Portal (MOE). (n.d.). Retrieved November 2, 2014.

<http://www.moe.gov.my/en/pelan-strategik-pengajian-tinggi-negara>

Munteanu, C., Ceobanu, C., Boba'lca, C., & Anton, O. (2010). An analysis of customer satisfaction in a higher education context. *International Journal of Public Sector Management*, Vol. 23 No. 2, pp. 124-140.

Naik, C. N. K., Gantasala, S. B., & Prabhakar, G. V. (2010). SERVQUAL, Customer Satisfaction and Behavioural Intentions in Retailing. *European Journal of Social Sciences*, Vol. 17 Issue 2.

Negricea, C. I. a., Edu, T., & Avram, E. M. (2014). Establishing Influence of Specific Academic Quality on Student Satisfaction. *Social and Behavioral Sciences*.

Nunnally, J. C. (1978). *Psychometric theory*. McGraw-Hill: New York.

Omar, N. A., Nazri, M. A., Abu, N. K., & Omar, Z. (2009). Parents' Perceived Service Quality, Satisfaction and Trust of a Childcare Centre: Implication on Loyalty. *International Review of Business Research Papers*, Vol. 5 No. 5.

Pallant, J. (2002). *SPSS Survival Manual, A step by step guide to data analysis using SPSS for Windows (Version 12)*. Ligare, Sydney.

Pantouvakis, A. (2010). The relative importance of service features in explaining customer satisfaction : A comparison of measurement models. *Managing Service Qualityakis*, Vol. 20 No. 4, pp. 366-387.

Parasuraman, A.Zeithaml, V., & L.Berry, L. (1988). SERVQUAL:A Multiple-Item Scale for Measuring Consumer Perceptions of Service Quality. *Journal Of Retailing*, volume 64.

Parasuraman, A.Zeithaml, V., & L.Berry, L. (1991). Refinement and reassessment of the SERVQUAL scale. *Journal of Retailing*, 67(4), 420-450.

Qurush, T. M., Shaukat, M. Z., & Hijazi, S. T. (2010). Service Quality SERVQUAL model in Higher Educational Institutions, What factors are to be considered? *Interdisciplinary Journal of Contemporary Research in Business*, Vol. 2 Issue 5, p281.

Rasli, A., Shekarchizadeh, A., & Iqbal, M. J. (2012). Perception of Service Quality in Higher Education: Perspective of Iranian Students in Malaysian Universities. *International Journal of Academic Research in Management (IJARM)*, Vol. 1, No.1.

Robbins, S.P., & Judge, T. A. (2013). *Organizational Behavior* (15th ed.). Boston: Pearson.

Sakthivel, P. B., Rajendran, G., & Raju, R. (2005). TQM IMPLEMENTATION TQM implementation and students' satisfaction of academic performance. The TQM Magazine, Vol. 17 No. 6, pp. 573-589.

Sandmaung, M., & Khang, D. B. (2013). Quality Expectations In Thai Higher Education Institutions: Multiple Stakeholder Perspectives. Quality Assurance in Education, Vol. 21 No. 3, pp. 260-281.

Sani, A. M., Osman, A., & Daud, M. S. (2014). Student Satisfaction Towards Service Quality of Front Office Staff: A Perspective of Public Higher Education Institution in Malaysia. Advances in Environmental Biology, 8(9).

Schiffman, L., & Kanuk, L. (2010). Consumer Behavior". 10th edition.

Sekaran, U. (2003). Research methods for business: A skill building approach. New York: John Wiley and Sons.

Sekaran, U. (2005).Research methods for business: A skill building approach, 4th edition, John Wiley and Sons, Inc. New York.

Sekaran, U. & Bougie, R. (2010). Research methods for business: A skill building approach (5th ed.). Chichester: John Willey & Sons Ltd.

Sharabi, M. (2013). Managing And Improving Service Quality In Higher Education. International Journal of Quality and Service Sciences, Vol. 5 No. 3, pp. 309-320.

Shekarchizadeh, A., Rasli, A., & Hon-Tat, H. (2011). SERVQUAL in Malaysian universities: perspectives of international students. *Business Process Management Journal of Educational Administration*, Volume 17.

Sohail, M.S. & Shaikh, N.M. (2004), “Quest for excellence in business education: a study of student impressions of service quality”, *The International Journal of Educational Management*, Vol. 18 No. 1, pp. 58-65.

Soutar, G., & McNeil, M. (1996). Measuring service quality in a tertiary institution. *Journal of Educational Administration*, 34(1), 72-82.

Stodnick, M., & Rogers, P. (2008). Using SERVQUAL to Measure the Quality of the Classroom Experience. *Decision Sciences Journal of Innovative Education*, Volume 6 Number 1.

Sudha, D. T. (2013). Total Quality Management In Higher Education Institutions. *International Journal of Social Science & Interdisciplinary Research*, Vol. 2 (6).

Sultan, P., & Wong, H. Y. (2012). Service Quality In A Higher Education Context:An Integrated Model. *Asia Pacific Journal of Marketing and Logistics*, Vol. 24 No. 5, pp. 755-784.

Sumaedi, S., Bakti, I. G. M. Y., & Metasari, N. (2011). The Effect of Students' Perceived Service Quality and Perceived Price on Student Satisfaction. *Management Science And Engineering*, Vol. 5, No. 1.

Trivellas, P., & Dargenidou, D. (2009). Leadership and service quality in higher education: The case of the Technological Educational Institute of Larissa. *International Journal of Quality and Service Sciences*, Vol. 1 No. 3, pp. 294-310.

Tsinidou, M., Gerogiannis, V., & Fitsilis, P. (2010). Evaluation of the factors that determine quality in higher education: an empirical study. Vol. 18, pp. 227-244.

Waugh, R.F. (2001). Academic staff perception of administrative quality at universities. *Journal of Educational Administration*, Vol. 2 No. 2, pp. 172-88

Weisberg, H. F., Krosnick, J. A., & Bowen, B. D. (1989). *An Introduction to Survey Research and Data Analysis*. San Francisco, CA: Scott Foresman & Co.

Yunus, N. K. Y., Ishak, S., & Razak, A. Z. A. A. (2010). Motivation, Empowerment, Service Quality and Polytechnic Students' Level of Satisfaction in Malaysia. *International Journal of Business and Social Science*, Vol. 1 No. 1.

Yusop, Z. B. M. (2011). A Study Of Student Satisfaction In Relation To Non Academic Staff Behaviour In Uitm Pahang (Jengka Campus).

Zainuddin, S., Kahmis, M. H., Muhamad, A., & Mamat, N. (2014). Perception And Expectation Of Students Towards The Service Quality: Perspective In Malaysian Research University. *Malaysian Online Journal Of Educational Management(Mojem)*, Volume 2, Issue 2, 73 - 91.

Zeithaml, V. A. (2000). "Service Quality, Profitability, and the Economic Worth of Customers: What We Know and what We Need to Learn," *Journal of the Academy of Marketing Science*, 28 (1), 67-85.

Zeithaml, V.A. & Bitner, M.J. (2000), *Services Marketing: Integrating Customer Focus across the Firm*, Irwin/ McGraw Hill, New York, NY.

Zeshan, M., 2010. Assessing Service Quality in Business Schools: Implications for Improvement. 3rd International Conference on Assessing Quality in Higher Education (pp. 219-232). Lahore, Pakistan.

Zikmund W. G. (1988), *Business Research Methods*, the Dryden Press, 2nd Ed.