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**PUBLIC UNIVERSITIES EMPLOYEES PERCEPTION OF
ELECTRONIC INFORMATION SHARING BETWEEN
UNIVERSITIES AND THE MINISTRY OF HIGHER EDUCATION
AND SCIENTIFIC RESEARCH**

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**DOCTOR OF PHILOSOPHY
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2017**



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Abstrak

Perkongsian maklumat ber-elektronik memberi faedah kepada organisasi dan institusi dalam pelbagai aspek termasuk meningkatkan tahap ketepatan maklumat dan ketepatan masa, meningkatkan kebertanggungjawaban dan pembuatan keputusan, dan meminimalkan kos pengurusan maklumat. Terdapat tahap perkongsian maklumat yang tinggi di antara universiti awam di Iraq dengan MOHESR, bagaimanapun wujud limitasi dalam perkongsian maklumat secara -elektronik antara mereka, yang membawa kepada kesukaran dan kelewatan dalam membuat keputusan. Ia juga memberi cabaran dan halangan dalam menyokong prinsip desentralisasi yang diamalkan oleh universiti awam dalam tadbir urus universiti. Maka, terdapat keperluan menjalankan satu kajian mengenal pasti langkah dan strategi untuk meningkatkan perkongsian maklumat ber-elektronik antara kementerian dan universiti. Objektif utama kajian ini adalah untuk mencadangkan satu model perkongsian maklumat secara-elektronik di antara universiti awam di Iraq dengan *MOHESR*. Pensampelan bertujuan dan analisis regresi linear berganda digunakan untuk kutipan dan analisis data. Sejumlah 660 soal selidik telah diagihkan di lima universiti di Iraq dan soal selidik yang dikembalikan ialah sebanyak 274 (42%). Dari 16 faktor yang dicadangkan, sepuluh faktor didapati signifikan iaitu keupayaan IT, kualiti maklumat, keserasian, kerumitan, gudang data, pengurusan atasan, polisi / rangka kerja legal, kepercayaan antara agensi, kepimpinan tingkat atas, dan rangkaian sosial. Berdasarkan pada dapatan kajian, kajian ini menyediakan satu model perkongsian maklumat secara elektronik di antara universiti awam di Iraq dengan MOHESR. Satu kefahaman yang luas ke atas model ini akan menyumbang kepada peningkatan perancangan dan pelaksanaan universiti awam berkaitan tiga dimensi; teknologi, organisasi dan alam sekitar, dalam usaha mengimprovisasi perkongsian maklumat secara elektronik di masa hadapan. Berdasarkan pada dapatan kajian, dapat disimpulkan bahawa tiga dimensi dan sepuluh faktor dapat meningkatkan perkongsian maklumat secara elektronik di antara universiti awam dan MOHESR.

Kata Kunci: Perkongsian maklumat secara elektronik, Kualiti Maklumat, Gudang data, Kepercayaan di antara agensi.

Abstract

Electronic information sharing benefits organizations and institutions in various aspects including increasing the level of information accuracy and timeliness, improving the accountability and decision making, and minimizing the cost of information management. There is a high degree of information sharing between Iraqi public universities and *Ministry of Higher Education and Scientific Research* (MOHESR), however, limited electronic information sharing exists between them, which brings difficulties and delay in making decisions. This limitation also creates challenges and barriers in supporting the decentralization principle taken by the public universities in universities' governance. Thus, there is a need to conduct a study to identify the possible steps and strategies to increase electronic information sharing between the ministry and universities. The main objective of this study is to propose a model of electronic information sharing between Iraqi public universities and MOHESR. Social Exchange Theory, Critical Mass Theory and Transactive Memory System Theory have been used to solve the problem and achieve the objectives. Purposive sampling has been used and multiple linear regression analyses were applied for data analysis. A total of 660 questionnaires have been distributed in five universities in Iraq and the returned response was 274 (42%). From the 16 factors proposed, ten factors are found to be significance which are IT capability, information quality, compatibility, complexity, data warehouse, top management, policy/legal framework, interagency trust, upper level leadership and social network. Based on the results obtained, the study presents a model of electronic information sharing between public universities in Iraq and MOHESR. A comprehensive understanding of this model will contribute to the improvement of the planning and implementation of three dimensions; technological, organizational and environmental of the public universities in their way forward to improvise electronic information sharing in the future. According to the findings, it can be concluded that three dimensions and ten factors can essentially increase the electronic information sharing among public universities and MOHESR.

Keywords: Electronic information sharing, Information quality, Data warehouse, Inter-agency trust.

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Mohammed Abdulameer Mohammed Al-Dabagh
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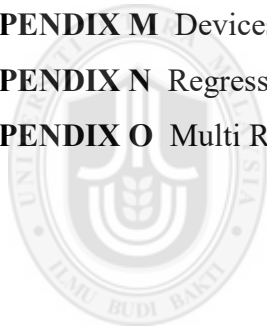
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List of Publications

- Mohammed, M. A.,** Huda, I. and Maslinda, M. N., (2015). Electronic Information Sharing between Public Universities and Ministry of Higher Education and Scientific Research: A Pilot Study. *Journal of Theoretical and Applied Information Technology* [Published].
- Jaber, M. M. Abd Ghani, M. K., Suryana, N. **Mohammed, M. A.** and Abbas, T., (2015). Flexible Data Warehouse Parameters: Toward Building an Integrated Architecture, *International Journal of Computer Theory and Engineering*, [Published].
- Mohammed, M. A.,** Huda, I. and Maslinda, M. N., (2014). Electronic Information Sharing to Improve Decision Making in Public Universities, *Asian Journal of Applied Sciences* [Published].
- Mohammed, M. A.,** Huda, I. and Maslinda, M. N., (2015). Electronic Information Sharing Influence Factors in Higher Education Sector. *International Journal of Electronic Government*, [Accepted].
- Mohammed, M. A.,** Huda, I. and Maslinda, M. N., (2015). Data Warehouse to Increase Electronic Information Sharing In Higher Education: An Empirical Study. *Jurnal Teknologi (Sciences and Engineering)*, [Accepted].
- Mohammed, M. A.,** Maroof, E., Huda, I. and Thamir, (2015). What are the Electronic Information Sharing Factors that Influence the Participation Behavior of Employees in Higher Education? *Journal of Procedia Computer Science*, [Accepted].
- Mohammed, M. A.,** Huda, I. and Maslinda, M. N., (2016). *Data Warehouse as an Influence Factor in Information Sharing in Public Organization*, 3rd International Conference on Communication and Computer Engineering, Bandung, Indonesia. [Accepted]
- Mohammed, M. A.,** (2015). *Introduce the E-government in Iraq and Its Challenges*, Introduce the 2nd Advancement on Information Technology International Conference, ADVKIT, Krabi, Thailand, [Under Review]
- Mohammed, M. A.,** Maroof, E., Huda, I. and Thamir, (2015). *Can or Can not? Electronic information sharing Factors Influence the Behavior*, The 2nd Innovation and Analytics Conference & Exhibition, Alor Setar, Kedah, Malaysia.
- Mohammed, M. A. &** Huda, I. (2014). *Identify the Influence Factors of Electronic Information Sharing in Higher Education Sector*. Knowledge Management International Conference, KMICe. Langkawi, Malaysia.

Mohammed, M. A., (2014). *Knowledge Sharing to Enhance Scientific Research among Universities*, Knowledge Management International Conference, KMICe. Langkawi, Malaysia.

Mohammed, M. A. & Anad, M., (2014). *Data warehouse for Human Resource by Ministry of Higher Education and Scientific Research*, International Conference on Computer, Communications, and Control Technology, I4CT, IEEE, Langkawi, Malaysia.

Mohammed, M. A., Huda, I. Hussein, A. H. Anad M. M., (2013). *General e-government Structure for Iraqi Decentralization Government*, e-Learning, e-Management and e-Services IC3e, IEEE, Sarawak, Malaysia.

Mohammed, M. A., Hasson, A. R. Shawkat, A. R. and Al-khafaji, N. J., (2012). *E-government Architecture Uses Data Warehouse Techniques to Increase Information Sharing in Iraqi Universities*, E-Learning, E-Management and E-Services IS3e, IEEE, KL Malaysia.



CHAPTER ONE

INTRODUCTION

1.1 Research Background

Information sharing is one of the important aspects that improve the quality of businesses and organizations. Furthermore, with the advent of information and communication technology (ICT), the trend of sharing has moved to electronic information sharing, which is increasingly needed to support decision making in any government agencies, link government agencies including universities. Universities play an important role in any country for the development and enhancement of the quality of human, society, and nation; thus, universities have its rule and control. The Iraqi Ministry of Higher Education and Scientific Research (MOHESR) has decided to give the ability to make decisions to its universities to assist them making their decisions and rule by themselves. Unfortunately, not all the Iraqi public universities have full control to make their decision because of the limitation of resources and experiences (MOHESR, 2012). Several studies, however, have indicated that it is essential to provide a better quality of education for students and to deliver better services to staff of public and private sectors (Engah, 2007; Al-Sail & Atwan, 2010; Mohammed, 2010). Nowadays, there is a need for better decision making, in order to support the decentralization in these universities (Al-Sail & Atwan, 2010). Moreover, according to Akbulut (2011), electronic information sharing can provide better and effective decision making. Therefore, this study focuses on electronic information sharing between public universities and MOHESR in order to support decision making in these universities.

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REFERENCE

- Abaas, T. J., Shibghatullah, A. S., & Jaber, M. M. (2014). Use Information Sharing Environment Concept to Design Electronic Intelligence Framework for Support E-Government: Iraq as Case Study. *Advances in Computing*, 4(1), 22-24.
- Abbas, D. A. (2012). Examination the Role of Technical Information in the Development of Nursing Education for the Faculty of Nursing at the University of Baghdad. *Nursing national Iraqi specility*, 25(1), 48-55.
- Abdul-Alrahman, A. A. (2011). Human Resources Investment as an Introduction to improve the efficiency & activity of workers in E-Government. *Journal of the planner and development*, (24), 1-17.
- Abdurrahman, O. (2007). Administrative decentralization and the need to apply. *Journal of Political Sciences*. (34), 139-140.
- Abed, G. F. (2007). Obstacles to the adoption of e-government applications to study a sample of opinions staff number of government departments in the province of Salah al-Din. *Tikrit Journal For Administrative & Economics Sciences*,(7), 43-57.
- Ahmed, M. A., T., Jasem H., & A, Hassan A. (2012). Readiness of local administrations to adopt e-governance case study in the office of the province of Nineveh. *Jornal of Economics & Administration*, (93), 281-298.
- Akbulut, A. Y. (2003). *An investigation of the factors that influence electronic information sharing between state and local agencies* Doctoral dissertation, Louisiana State University.
- Akbulut, A. Y. (2010). *Interagency Information Sharing: Understanding the Determinants of Electronic Information Sharing*. Saarbrucken, Deutschland: VDM Verlag Dr. Müller
- Akbulut, A. Y. (2011). Information Sharing Between Local And State Governments. *Journal of Computer Information Systems*, 51(4), 53-63.
- Akbulut, A. Y., Kelle, P., Pawlowski, S. D., & Schneider, H. (2009). To share or not to share? Examining the factors influencing local agency electronic information sharing. *International Journal of Business Information Systems*, 4(2), 143-172.
- Al-Ani, T. A. & Al-Naami, S. A., (2013). Higher Education and Development in Iraq, reality, the challenges and prospects Report for UNESCO. Available at : <http://mohestr.gov.iq/uploads/pdf/Unesco2015.pdf>
- Al-Aqaby, K. M.B. (2012). *The role of information and communication technology in the promotion of public participation*. Paper presented at the "Together towards Digital Inclusion", 2nd International e-Governance Conference, Baghdad, Iraq.
- Al-Askari, K. Y. S. (2009). Technology Education via Computer and the Internet in Iraqi Universities Vision for the Future. *Humanities Sciences Al Qadisiya*, 12(1), 215-235.
- Al-Dabagh, R. A., & Al-Dabagh, M. Z. (2013). Instant-mail System Design Using the Infrastructure of Information and Communication Technology "Model Proposed for the Intranet Network at the University of Mosul". *AL-Rafidain Journal of Computer Sciences and Mathematics*, 10(2), 61-80.
- Al-Dhalmy, M., Al-Amarah, A. & Al-Asadi, A. (2012). Measuring the quality of higher education outcomes from the perspective of universities and some labor market institutions (analytical study in the Middle Euphrates region). *Journal of Administration and Economics*(90), 147-171.
- Al-Fatly, H. H. (2008). The Obstacles Facing the researcher in Iraq University. *Journal of Al-Qadisiya in Arts and Educational Science*, 7(3-4), 229-242.

- Alhadithi, A., Idrus, R. M., & Elameer, A. (2011). Re-engineering Iraqi Higher Education with the E-Education Solutions. *Recent Researches in Education*, 37-42.
- Ali, A. H. (2013). Relationship with e-government program automation system of government action. *Kut Journal for Economics Administrativy Sciences*, (9), 85-111.
- Al-Issawi, M. A., & Ahmed, S. (2008). The reality of the Directorate of student activities at the universities of the Middle Euphrates from the standpoint of the technical staff and faculty and students. *Sciences Journal of Physical Education*, 1(9), 330-350.
- Al-Jubory, F. Y., Al-Rubaay, S. A. & Al-Ubidy, A. M. (2011). *Crisis Management and Electronic Decision-Making Journal of Babylon University*, 1(2), 81-91.
- Al-Jubory, H. H. (2012). The effectiveness of the program guide in the mobilization of psychic energy at the football games five universities in the Middle Euphrates. *Journal of Human Sciences*, 1(10), 332-339.
- Al-Ma'malji, A. A., & Al-Rawi, A. S. (2005). Infra-structure Study of Information in Iraqi Universities and it's Surroundings. *Al-Mansour Journal*, (8), 95-124.
- Almabhough, A., & Bin Saleh, A. (2008). *A Data Warehousing Model for Malaysian Public Universities' Operational Systems*. Paper presented at the International Conference on Science & Technology: Applications in Industry & Education.
- Al-Maliky, S. J. B. (2012). Role of Iraqi Higher Education Institutes in Handling National/International Environmental and Health Challenges. *Higher Education Studies*, 2(3), 110-115.
- Al-Musawi, A. S., & Maky, M. M. (2005). Geographic analysis of geographical characteristics (Natural and Human) in the provinces of Middle Euphrates spatial relationship in the specialty and region. *Journals geographic* (2), 45-72.
- Al-Nahi, H. G. (2011). Use of electronic information sources from the point of view of faculty members in the College of Literature at the University of Basra, *Basra Studies journal*, 11(11), 57-79.
- Al-Qaisi, H. M. (2008). Strategy of higher education on the role of the university in building rights in the light of the vision for the future. *Journal of the College of Basic Education*, (52), 247-270.
- Al-Sail A. S. & Atwan, K. A., (2010). The quality of higher education in Iraq dilemmas between reality and the requirements for the Advancement. *The International and Political Journal*, (15), 83,100.
- Al-Shafia, S. S. (2010). Constraints that Faced the faculty Members. *Journal of Human Sciences*, 1(3), 269-294.
- Al-Shakarchy, N. K. (2013). Security Management in E-Government using Zero-Knowledge Authentication. *Journal of kerbala university*, 1(1), 208-217.
- Al-Shimary, S. R., Al-Azawi M. H. & Al-Mashhadani A. A. (2013). Effect some of the Stragy Factors of Decision Making. *Baghdad College of Economic Sciences University*, (34), 67-86.
- Al-Shouk, I. (2011). *Decetralization in Iraq, Challenges and Solutions for the Federal and Local Governments*. Paper presented at the International Conference on Decentralization, local governance and service Delivery: sharing experience and sustaining progress in urban iraq, Aman, Jordan.
- Al-Taie, M. Z., & Kadhim, A. M (2013). Factors Disrupting a Successful Implementation of E-Commerce in Iraq. *Journal of Baghdad College of Economic Sciences University*, 531-558.

- Al-Taie, M. Z., & Kadry, S. (2013). E-Government: Latest Trend and Future Perspective the Iraq Case, pp 1-17.
- Al-Tak, A. Z., & Al-Hayali, S. M. (2013). Support social services and their role in organizational loyalty. *Journal of Kirkuk University for Administrative and Economic*, 3(2), 1-17.
- Al-Ubaidy, M. H. A. (2012). Normative levels of success in some track and field events for the students of the first phase of physical education colleges in the universities of the Middle Euphrates. *Al-Qadisiya magazine for the Sciences of Physical Education*, 12(1), 131-150.
- Alwan, S. A., & Abdurrahman, A. A. (2010). The Possibility of Applied Electronic Government in Basrah Governorate A survey Study of manager's Opinions in Public Administrations. *Journal of Economic Sciences*, 7(26), 88-117.
- Al-Yassry, A. M. & Hussain, D. N. (2012). The impact of knowledge management and organizational learning in strategic performance survey of the views of a sample of administrative leadership at the universities of the Middle Euphrates. *AL-Qadisiya Journal for Administrative and Economic Sciences*, (1), 8-34.
- Al-Yassry, A. M., Al-Khfaji, A. K. & Hussain, D. N. (2012). The impact of knowledge management in strategic performance survey of the views of a sample of administrative leadership at the universities of the Middle Euphrates. *Journal of Babylon University*, 20(1), 54-69.
- Al-Zobaidy, H. T. (2007). Towards decentralization of planning policy in Iraq. *Journal of the planner and development*, (16), 54-66.
- Anderson, J. C., & Narus, J. A. (1990). A Model of the Distributor-Manufacturer Working Relationships. *Journal of Marketing*, 54(1), 42-58.
- Anderson, J.C. and Narus, J.A. (1986) "Toward a better understanding of distribution channel working relationships" in *Industrial marketing: A German-American perspective*, eds. K. Backhaus and D. Wilson, Springer Verlag, Berlin, pp 320–336.
- Ariyachandra, T., & Watson, H. (2010). Key organizational factors in data warehouse architecture selection. *Decision support systems*, 49(2), 200-212.
- Asim, K., & Ibrahim, M. (2013). The role of information and communication technology to improve the quality of information and its impact on economic development. *Journal of Baghdad College of Economic Sciences University*, special issue, 227-258.
- Asman, T. K. & Hamad, M. M. (2010). Implementing Documents Service For E-University Based On Data Warehouse. *Journal of University of Anbar for Pure Science*, 4(2), 98-104.
- Atabakhsh, H., Larson, C., Petersen, T., Violette, C., & Chen, H. (2004). Information sharing and collaboration policies within government agencies. *Intelligence and Security Informatics* (pp. 467-475): Springer Berlin Heidelberg.
- Avicenna. (2013). Avicenna Virtual Campus. From <http://www.unesco.org/new/en/natural-sciences/science-technology/sti-policy/avicenna-virtual-campus/> Retrieved February 2, 2013.
- Bagozzi, R.P., Yi, Y., and Phillips, L.W. (1991) "Assessing Construct Validity in Organizational Research," *Administrative Science Quarterly*, 38(3), pp. 459-489.
- Bansal, K. L., & Sood, S. (2011). Role of Data Warehousing & Data Mining in E Governance. *International Journal of Artificial Intelligence and Knowledge Discovery*, 1(1), 38-41.

- Bellamy, C., 6, P. and Raab, C. (2005) "Joined-up government and privacy in the United Kingdom: managing tensions between data protection and social policy. Part II", *PublicAdministration*, 83(2), 393-415.
- Bhanti, P., Kaushal, U., & Pandey, A. (2011). E-Governance in Higher Education: Concept and Role of Data Warehousing Techniques. *International Journal of Computer Applications*, 18(1), 15-19.
- Bigdeil, A. Z., Kamal, M., & de Cesare, S. (2013a). Information sharing through inter-organisational systems in local government. *Transforming Government: People, Process and Policy*, 7(2), 148-176.
- Bigdeli, A. Z. (2012). Inter-departmental information sharing in local government authorities (LGAs): The case of the United Kingdom, *PhD thesis Brunel University London*.
- Bigdeli, A. Z., Kamal, M., & de Cesare, S. (2012). *Information sharing in inter-departmental collaboration: a conceptual framework for local government authorities*. Paper presented at the Proceedings of the 6th International Conference on Theory and Practice of Electronic Governance.
- Bigdeli, A. Z., Kamal, M., & de Cesare, S. (2013b). Electronic information sharing in local government authorities: Factors influencing the decision-making process. *International Journal of Information Management*, 33(5), 816-830.
- Bigdeli, A. Z., Kamal, M., & deCesare, S. (2011). Inter-organisational electronic information sharing in local G2G settings: a socio-technical issue.
- Bock, G.W., Zmud, R., Kim, Y. and Lee, J. (2005). Behavioral Intention Formation in Knowledge Sharing: Examining the Roles of Extrinsic Motivators, Social Psychological Forces, and Organizational Climate. *MIS Quarterly*, 29(1), 87-111.
- Bouchard, L. (1993). *Decision Criteria in the Adoption of EDI*. Proceeding 14th Annual International Conference on Information Systems (ICIS), Orlando, Florida.
- Brinkerhoff, D. W., & Johnson, R. W. (2009). Decentralized local governance in fragile states: Learning from Iraq. *International Review of Administrative Sciences*, 75(4), 585-607.
- Cairns, A., Jackson, T., & Cooke, L. (2011). The factors involved in sharing information between public agencies.
- Campbell, D. T. (1986). Relabeling internal and external validity for applied social scientists. *New Directions for Program Evaluation*, 1986(31), 67-77.
- Chang, D. F., Wu, C. T., Ching, G., Tang, C. W., & Xiao, L. (2011). Globalization and Higher Education in Taiwan. DOI: 10.5772/18652.
- Chau, P. Y., Lai, F., & Li, D. (2008). What factors drive the assimilation of internet technologies in China?. *Communications of the ACM*, 51(9), 132-135.
- Chau, P.Y.K. and Tam, K.Y. (1997). Factors affecting the adoption of open systems: an exploratory study. *MIS Quarterly*, 21(1), pp 1–24.
- Cheema, G. S. (2011). *Decentralization in Iraq Challenges and solutions for the federal and local governments*. Paper presented at the International Conference on Decentralization, Local Governance and Service Delivery: Sharing Experience and Sustaining Progress in Urban Iraq, Amman, Jordan.
- Chen, Y. N., Chen, H. M., Huang, W., & Ching, R. K. (2006). E-government strategies in developed and developing countries: An implementation framework and case study. *Journal of Global Information Management*, 14(1), 23-46.
- Chin, W.W., Gopal, A., and Salisbury, W.D. (1997) "Advancing the Theory of Adaptive Structuration: The Development of a Scale to Measure Faithfulness of Appropriation," *Information Systems Research*, 8(4), 342-367.

- Christanto, F. W., Utomo, W. H., & Sedyono, E. (2012). The Process of Data Tabulation Using Data Warehouse and OLAP Technology to Sales Analysis at Distributor Company. *International Journal of Computer Science Issues*, 9(4), 46-53.
- Coakes, S. J., & Steed, L. (2003). *SPSS: Analysis Without Anguish :Version 11.0 for Windows* Milton, Australia: John Wiley & Sons, Inc.
- Connolly, T. M., & Begg, C. (2010). *Database systems: a practical approach to design, implementation, and management* (t. edition Ed.): Pearson Education.
- Constant, D., Kiesler, S., & Sproull, L. (1994). What's mine is ours, or is it: A study of attitudes about information sharing. *Information Systems Research*, 5(4), 400-421.
- Constant, D., Kiesler, S., & Sproull, L. (1994). What's mine is ours, or is it? A study of attitudes about information sharing. *Information systems research*,5(4), 400-421.
- Corradini, F., De Angelis, F., Polzonetti, A. and Re, B. (2006) "Quality evaluation of e-Government digital services", *Proceedings of the 2006 international conference on Digital government research*ACM, , pp. 377.
- Cresswell, A., Pardo, T. A., Canestraro, D. S., Dawes, S. S., & Juraga, D., (2005). *Sharing justice information: A capability assessment toolkit*: Center for Technology in Government, University at Albany, SUNY.
- Creswell, J. W. (2009). *Research design: Qualitative, quantitative, and mixed methods approaches*: Sage.
- Cronbach, L. J. (1946). Response sets and test validity. *Educational and psychological measurement*, 6(4), 475-494.
- Cuiling, J., Tianhe, C., & Guojun, P. (2006). *Design and implementation of spatial data warehouse for China sustainable development information sharing*. Paper presented at the International Geoscience and Remote Sensing Symposium, IEEE, pp. 2895-2898.
- Dai, X., & Kumar, B. A. (2010). Comparing and Contrasting Campus Information Systems in South Pacific Regional Universities. In *International Conference on Computational and Information Sciences, IEEE*, pp. 721-724.
- Dawes, S. S. (1996). Interagency information sharing: Expected benefits, manageable risks. *Journal of Policy Analysis and Management*, 15(3), 377-394.
- Dawes, S. S., Gharawi, M. A., & Burke, G. B. (2012). Transnational public sector knowledge networks: Knowledge and information sharing in a multi-dimensional context. *Government Information Quarterly*, 29, S112-S120.
- De Santisteban, A. V. (2005). Sanctions, war, occupation and the de-development of education in Iraq. *International review of education*, 51(1), 59-71.
- Dimokas, N., Mittas, N., Nanopoulos, A., & Angelis, L. (2008). A prototype system for educational data warehousing and mining. In *Conference on Informatics Panhellenic*, IEEE, pp. 199-203.
- Dongsheng, Z., & Wenjing, J. (2009). *Design and Implementation of University Educational Decision Support System on the Students Satisfaction Survey*. Paper presented at International Forum on the Computer Science-Technology and Applications, Vol. 3, pp. 428-430.
- Dos Santos, E.M. and Reinhard, N. (2007) "Setting interoperability standards for e-government:an exploratory case study", *Electronic Government, an International Journal*, 4(4), 379-394.
- EFDT. (2013). E-Form of Driving Test. Retrieved March 12, 2013, from <http://www.itp.gov.iq/lic1.php>

- Ehsan, B. A. (2012). E-commerce concept and advantages in the Arab countries. *Journal of Baghdad College of Economic sciences University* (32), 209-226.
- E-Iraq, (2012). National e-Governance Action Plan. Available at: <http://www.egov.gov.iq/egov-iraq/resources/doc/egif-plan/plan2012-2015.pdf>.
- E-Iraq, (2014). Guidelines for Implementing and Managing National Enterprise Architecture Government of Iraq. Available at: <http://www.egov.gov.iq/egov-iraq/resources/doc/event/e-GovernanceMap/NEA/National%20Enterprise%20Architecture%20Guidelines%20TOGAF%20v1.0.pdf>
- Elameer, A. S., & Idrus, R. M. (2010). The Readiness for an e-Learning System in the University of Mustansiriyah(UoMust) Baghdad-Iraq. *Malaysian Journal of Educational Technology*, 10(2), 31-41.
- Elameer, A. S., & Idrus, R. M. (2011a). National E-Learning Strategy to Enhance and Enrich the Iraqi Universities. *Online Submission*.
- Elameer, A. S., & Idrus, R. M. (2011b). Elameer-Idrus Orbital E-Education Framework for the University of Mustansiriyah (Uomust). *Turkish Online Journal of Educational Technology-TOJET*, 10(4), 165-173.
- Emerson, R.M. (1976) "Social exchange theory", *Annual review of sociology*, vol. 2, pp. 335-362.
- Engah, O. N. (2007). The role of the plaudits to modify some of the decisions of the Ministry of Higher Education and Scientific Research in respect of Student Affairs for the academic year 2006-2007. *Journal of Tikrit University for the Humanities*, 14(11), 378-419.
- E-portal. (2012). electronic Iraqi portal. Retrieved Septamper 2, 2012, from <http://www.egov.gov.iq/egov-iraq/>
- EPR. (2013). E-Passport Record. Retrieved March, 12, 2012, from [http://www.iraqnationality.com/eform/\(S\(xqxnhb55s2sungqiyw5s23e3\)\)/default.aspx](http://www.iraqnationality.com/eform/(S(xqxnhb55s2sungqiyw5s23e3))/default.aspx)
- Estevez, E., Fillottrani, P., & Janowski, T. (2010). *Information sharing in government–conceptual model for policy formulation*. Paper presented at the Proceedings of The 10th European Conference on e-Government (ECEG). University of Limerick, Ireland.
- Estevez, E., Fillottrani, P., Janowski, T., & Ojo, A. (2011). Government Information Sharing: A Framework for Policy Formulation. *Governance and Cross-boundary Collaboration: Innovations and Advancing Tools*, 23-55.
- Evangelidis, A. (2005) "FRAMES—a risk assessment framework for e-services", *Electronic Journal of e-Government*, 2(1), 21-30.
- Fadhelalla, J. S. (2012). Planning to build a base for evaluating e-government services in Iraq. *Journal of Canter for Market Research and Consumer Protection University of Baghdad*, 4(2), 71-106.
- Fadhil, W. (2011). *Decetralization in Iraq, Challenges and Solutions for the Federal and Local Governments*. Paper presented at the International Conference on Decentralization, local governance and service Delivery: sharing experience and sustaining progress in urban iraq, Aman, Jordan.
- Faraj, E. Z. (2013). Reasons for delay in completion of the procedures / routine In the Ministry of Education From the perspective of managers, heads of departments and sub department. *Journal Of The College Of Education For Women* 24(1), 234-256.

- Faul, F. and Erdfelder, E. (1992) *G*POWER: A Priori, Post-hoc, and Compromise Power Analysis for MS-DOS* [Computer Program], Department of Psychology, Bonn University, Bonn, Germany.
- Faul, F., Erdfelder, E., Lang, A. G., & Buchner, A. (2007). G* Power 3: A flexible statistical power analysis program for the social, behavioral, and biomedical sciences. *Behavior research methods*, 39(2), 175-191.
- Fawzi, A. F., & Said, A. A. (2011). The Relation between Strategic thinking and Strategic decision (An exploratory study for a sample of the heads of scientific departments University Of Baghdad). *Al-Rafidain University College For Sciences* (28), 70-90.
- Fedorowicz, J., Gogan, J.L. and Williams, C.B. (2007) "A collaborative network for first responders: Lessons from the CapWIN case", *Government Information Quarterly*, vol. 24, no. 4, pp. 785-807.
- Ferguson, T.D., and Ketchen, D.J. (1999) "Organizational Configurations and Performance: The Role of Statistical Power in Extant Research," *Strategic Management Journal*, 20(4), 385-395.
- Fornell, C.R. and Lacker, D.F. (1981) "Two Structural Equation Models with Unobservable Variables and Measurement Error," *Journal of Marketing Research*, 18, pp. 39-50.
- Forster, R., & Michell, N. (2011). *Decentralization in Iraq Challenges and solutions for the federal and local governments*. Paper presented at the International Conference on Decentralization, Local Governance and Service Delivery: Sharing Experience and Sustaining Progress in Urban Iraq, Amman, Jordan.
- Frambach, R. T., & Schillewaert, N. (2002). Organizational Innovation Adoption A Multi-Level Framework of Determinants and Opportunities for Future Research. *Journal of Business Research* (55), 163-176.
- Ganesan, S. (1994) "Determinants of long-term orientation in buyer-seller relationships". *Journal of Marketing*, 58(2), 1-19.
- Gefen, D., Straub, D., & Boudreau, M. C. (2000). Structural equation modeling and regression: Guidelines for research practice. *Communications of the association for information systems*, 4(1), 1-77.
- GIF. (2011). *Government Interoperability Framework*: Retrieved from <http://www.egov.gov.iq/egov-iraq/resources/doc/egif-plan/iraqiegifenglish>.
- Gilbert, D., Balestrini, P., & Littleboy, D. (2004). Barriers and benefits in the adoption of e-government. *International Journal of Public Sector Management*, 17(4), 286-301.
- Gil-García, J. R., & Pardo, T. A. (2005). E-government success factors: Mapping practical tools to theoretical foundations. *Government Information Quarterly*, 22(2), 187-216.
- Gil-Garcia, J. R., Chengalur-Smith, I., & Duchessi, P. (2007). Collaborative e-Government: impediments and benefits of information-sharing projects in the public sector. *European Journal of Information Systems*, 16(2), 121-133.
- Gil-Garcia, J. R., Chun, S. A., & Janssen, M. (2009). Government information sharing and integration: Combining the social and the technical. *Information Polity*, 14(1), 1-10.
- Gil-Garcia, J. R., Pardo, T. A., & Burke, G. B. (2007). *Government leadership in multi-sector IT-enabled networks: Lessons from the response to the West Nile Virus outbreak*. Paper presented at the Workshop 4: Leading in a Multi-Sector Environment.

- Gil-Garcia, J. R., Schneider, C. A., Pardo, T. A., & Cresswell, A. M. (2005). Interorganizational information integration in the criminal justice enterprise: Preliminary lessons from state and county initiatives. In *proceedings of the 38th Annual Hawaii International Conference on System Sciences ,IEEE*, pp. 118c-118c.
- Gil-Garcia, J.R., Guler, A., Pardo, T.A. and Burke, G.B. (2010) "Trust in Government Cross-Boundary Information Sharing Initiatives: Identifying the Determinants", *43rd Hawaii International Conference on System Sciences*, IEEE, pp. 1-10.
- Gorawski, M. (2009). *Extended cascaded star schema and ECOLAP operations for spatial data warehouse*. In *Intelligent Data Engineering and Automated Learning-IDEAL 2009 (pp. 251-259)*. Springer Berlin Heidelberg.
- Grotevant, S. M, & Foth, D. (1999). *The Power of Multidimensional Analysis (OLAP) in Higher Education Enterprise Reporting Strategies*. *College and University Information Services Conference* Available at: <https://net.educause.edu/ir/library/html/cmr9917/cmr9917.html>
- Hafadh, A. A., & Husain, H. W. (2010). Organizational structures higher education and scientific research. *The Islamic College University Journal*, (13), 325-348.
- Hair, J. F., Money, A. H., Samouel, P., & Page, M. (2007). *Research methods for business*: John Wiley & Sons Chichester, England.
- Hair, J. F., Ringle, C. M., & Sarstedt, M. (2013). Editorial-Partial Least Squares Structural Equation Modeling: Rigorous Applications, Better Results and Higher Acceptance. *Long Range Planning*, 46(1-2), 1-12.
- Hair, J. F., Tatham, R. L., Anderson, R. E., & Black, W. (2006). *Multivariate data analysis* (Vol. 6). Upper Saddle River, NJ: Pearson Prentice Hall.
- Hall, B.H. and Khan, B. (2003) "Adoption of new technology", *NBER working paper*,
- Hamad, M. M. , & Asman, T. K. (2010). Implementing Documents Service For E-University Based On Data Warehouse. *Journal of University of Anbar for Pure Science*, 4(2), 98-104.
- Harb, I. K. (2009). *Higher education and the future of iraq*. US Institute of Peace.
- Harry, M. (1994). *Information systems in business*. Boston, MA: Pitman Publishing.
- Hart, P. , & Saunders, C. (1997). Power and Trust: Critical Factors in the Adoption and Use of Electronic Data Interchange. *Organization Science*, 8(1), 23-42.
- Heeks, R. (2006). Benchmarking egovernment: improving the national and international measurement, evaluation and comparison of egovernment. *Evaluating Information Systems*, 257.
- He-jiang, W. A. N. G. (2010). *Influencing Factors on the Sharing of Electronic Government Affairs Information and the Countermeasures*. In *International Conference on Information Management, Innovation Management and Industrial Engineering*, IEEE, Vol. 3, pp. 195-200.
- Higgins, E., Taylor, M., Lisboa, P., & Arshad, F. (2014). Developing a data sharing framework: a case study. *Transforming Government: People, Process and Policy*, 8(1), 151-164.
- Hogskoleverket. (2003). *Higher Education in Iraq: National Agency for Higher Education*.
- Hu, X. (2010). Data Warehouse Technology and Application in Data Centre Design for E-government, pp 371-383.
- Huang, T., Dang, A., Cheng, H., Peng, X., & Zhu, Z. (2010). *Digital urban planning oriented data warehouse constructing supported by GIS: Taking Greater Beijing regional planning as a case*. In *International Conference on 18th Geo informatics*, IEEE (pp. 1-5).

- Humphreys, P., Lai, M. and Sculli, D. (2001). An inter-organizational information system for supply chain management. *International Journal of Production Economics*, 70(3), pp. 245-255.
- Husain, M. A. (2004). Iraq, Education In Transition Needs And Challenges. Unesco.
- Husain, M. K. (2013). E-government. *Journal of Baghdad College of Economic sciences University*, special issue, 439-460.
- Hussian, D. S., & Juwad, M. S. (2013). People Profile Management System (PPMS): Construct Requirement Model for Karbala University. *Journal of Kerbala University*, (1)193-131.
- Iacovou, C.L., Benbasat, I. and Dexter, A.S. (1995) 'Electronic data interchange and small organizations: adoption and impact of technology', *MIS Quarterly*, 19(4), 465-485.
- Ie-GP. (2013). Iraqi E-government Portal. Retrieved March 20, 2013, from <http://www.egov.gov.iq/egov-iraq/index.jsp?&lng=en>
- Ihsanoglu, E. (2007). Assessing the human tragedy in Iraq. *International Review of the Red Cross*, 89(868), 915-927.
- IIE, (2012). Convenes Major Conference on Higher Education in Iraq. Retrieved May, 23, 2012, from <http://www.iie.org/Who-We-Are/News-and-Events/Events/2012/IIE-Iraq-Conference-Quality-Assurance-and-Accreditation>
- Ikoya, P. O. (2008). Centralization and decentralization of schools' physical facilities management in Nigeria. *Journal of Educational Administration*, 46(5), 630-649.
- Inmon, W. H. (1996). The data warehouse and data mining. *Communications of the ACM*, 39(11), 49-50.
- Inmon, W. H. (2000). Building the data warehouse: getting started.
- Inmon, W. H. (2005). *Building the data warehouse*: John Wiley & Sons
- Issa, J. H., & Jamil, H. (2010). Overview of the Education System in Contemporary Iraq. *European Journal of Social Sciences*, 14(3), 360-386.
- Jaber, M. M., Abd Ghani, M. K. & Herman. N. S., (2014). A Review of Adoption of Telemedicine in Middle East Countries: Toward Building Iraqi Telemedicine Framework. *Sci.Int.(Lahore)*, 26(5), 1795-1800.
- Jaber, M. M., Ghani, M. K. A., Suryana, N., Mohammed, M. A. and Abbas, T. (2014). *Flexible Data Warehouse Parameters: Toward Building an Integrated Architecture*, 7, 349-353.
- Jarvenpaa, S.L., and Staples D.S. (2000) "The Use of Collaborative Electronic Media for Information Sharing: An exploratory Study of Determinants," *Journal of Strategic Information Systems*, 9, pp. 129-154.
- Jiang, L., Xu, J., Xu, B., & Cai, H. (2011). *An automatic method of data warehouses multi-dimension modeling for distributed information systems*. In 15th International Conference on Computer Supported Cooperative Work in Design, IEEE, pp. 9-16.
- Jing, F., & Pengzhu, Z. (2007a). *A case study of G2G information sharing in the Chinese context*. Paper presented at the Proceedings of the 8th annual international conference on Digital government research: bridging disciplines & domain, (pp. 234-235). Digital Government Society of North America.
- Jing, F., & Pengzhu, Z. (2007b). *What Factors Influence the Information Sharing across Government Agencies?*. In International Conference on Service Systems and Service Management, IEEE, pp. 1-4.
- Jing, F., & Pengzhu, Z. (2009). *A Field Study of G2G Information Sharing in Chinese Context Based on the Layered Behavioral Model*. In 42nd Hawaii International Conference on System Sciences, IEEE, pp. 1-13.

- Jing, F., Pengzhu, Z. & Yen, D. C. (2014). G2G information sharing among government agencies. *Information & Management*, 51(1), 120-128.
- Juan, H. K., & Abdalabas, M. T. (2011). The role of ISO in terms of the organizational structure of institutions of higher education: A field study at the University of Karbala. *Iraqi Journal for Managerial Science*, 7(28), 253-278.
- Kaghed, N., & Dezaye, A. (2009). Quality assurance strategies of higher education in Iraq and Kurdistan: A case study. *Quality in Higher education*, 15(1), 71-77.
- Kamal, M. R., Singh, D. S., & Ahmad, K. (2012). *Factors Influencing Interdepartmental Information Sharing Practice in Electronic Government Agencies* Paper presented at the Knowledge Management International Conference (KMICe), pp. 292-298.
- Kendal, S., and Creen, M. (2006). An introduction to knowledge engineering. London: Springer. Doi: 10.1007/978-1-84628-667-4,.
- Kenneth S. and Bordens, B. B. A. (2005). *Research And Design Methods A Process Approach* (Sixth Edition ed.) New York: McGraw-Hill.
- Khamees, S. A. (2010). The appearance behavior and its relation to the shyness of the first stage (female colleges) of the physical education at the universities of the middle Euphrates. *Sciences Journal of Physical Education*, 3(2), 248-265.
- Khamees, S. A. (2011). Built of measure to the appearance behavior for the first stage of students (female) in colleges of the physical education in the universities of middle Euphrates. *Sciences Journal of Physical Education*, 4(4), 1-30.
- Khamees, S. A. (2012). Building measure psychological alienation among volleyball players at the universities of the Middle Euphrates. *Al.Qadissiya journal for the Sciences of Physical Education*, 12(2), 125-146.
- Kimball, R., & Merz, R. (2000). *The data webhouse toolkit: building the web-enabled data warehouse*: Wiley New York.
- Kimball, R., & Ross, M. (2002). The data warehouse toolkit: the complete guide to dimensional modelling. *Nachdr.]. New York [ua]: Wiley.*
- Kirtikara, K. (2012). Promoting effective regionalization among Thai technical universities. *Asian Education and Development Studies*, 1(1), 67-84.
- Klischewski, R., & Scholl, H. J. (2006). Information quality as a common ground for key players in e-Government integration and interoperability. Paper presented at the Hawaii International Conference on System Sciences (HICSS-39), Hawaii.
- Klischewski, R., & Scholl, H. J. (2008). Information quality as capstone in negotiating e- Government integration, interoperation and information sharing. *Electronic Government, an International Journal*, 5(2), 203–225.
- Kuan, K. K.Y. and Chau, P. Y.K. (2001) "A perception-based model for EDI adoption in small businesses using a technology-organization-environment framework". *Information & Management*, 38(8), pp. 507-521.
- Kudrass, T. (2006). "Integrated university information systems," Proceeding Eight International Conference on Enterprise Information Systems, Databases and Information Systems Integration, pp. 208–214.
- Kumar, R. (2011). *Research Methodology: A Step-by-Step Guide for Beginners* (Third Edition ed.): SAGE Publications Ltd.
- Kurnia, S. and Johnston, R.B. (2000) "The need for a processual view of inter-organizational systems adoption", *The Journal of Strategic Information Systems*, 9(4), pp. 295-319.
- Lafta, J. K. (2010). Institutional Problems in Administration of Higher Education in Iraq. *Economic Sciences*, 7(26), 51-87.

- Lafta, J. K. (2011). Methodology Introductions in Filer of Strategic Development Attempts for Higher Education System in Iraq. *Managerial Studies Journal*, 4(7), 144-177.
- Lam, W. (2005) "Barriers to e-government integration", *Journal of Enterprise Information Management*, 18(5), 511-530.
- Landsbergen Jr, D., & Wolken Jr, G. (2001). Realizing the promise: Government information systems and the fourth generation of information technology. *Public Administration Review*, 61(2), 206-220.
- Lee, J., & Rao, H. R. (2007). *Exploring the causes and effects of inter-agency information sharing systems adoption in the anti/counter-terrorism and disaster management domains*. Paper presented at the Proceedings of the 8th annual international conference on Digital government research: bridging disciplines & domains. (pp. 155-163).
- Lewis, K. (2003). Measuring transactive memory systems in the field: scale development and validation. *Journal of Applied Psychology*, 88(4), 587-604.
- Liang, K., & Lan, Z. (2010). *Local universities of china management information system integration model design*. In International Symposium on Intelligence Information Processing and Trusted Computing, IEEE, pp. 18-20.
- Lindsey, U. (2012). Iraqi Universities Reach a Crossroads. *The Chronicle of Higher Education*.
- Litan, D., Apostu, A., Copcea, L., & Teohari, M. (2011). Technologies for Development of the Information Systems: from ERP to e-Government. *International Journal of Applied Mathematics and Informatics* 2(5), 137-152.
- Liu, L., Li, Q., & Lu, P. (2011). *A Study of Financial Management Information System Construction in Colleges and Universities*. In International Conference on Control, Automation and Systems Engineering, IEEE, pp. 1-3.
- Liu, X., & Li, D. (2009). *Data Warehouse-Based Personalized Information Service Scheme in E-Government*. In International Conference on Software Engineering Research, Management and Applications, IEEE, pp. 147-152.
- Liu, X., & Luo, X. (2010). A Data Warehouse Solution for E-government. *IJRRAS*, 4(1) 101-105.
- Lu, X., Liu, F., & Pei, R. (2011). *E-Government Implementation Performance and Information Sharing: An Analysis among Multi-level Departments*. In *International Conference on Network Computing and Information Security*, IEEE, Vol. 1, pp. 279-283.
- Lv, Z. (2010). *Case study: strategic information systems planning in Shanghai key universities in Yangpu district*. In International Conference on e-Education, e-Business, e-Management, and e-Learning, IEEE, pp. 445-450.
- Mahmoud, K. C. J. (2010). E-Government and crisis management. *AL-Mostansiriyah journal for arab and international studies*, (30), 232-249.
- Margaritopoulos, T., Margaritopoulos, M., Mavridis, I., & Manitsaris, A. (2008). *A conceptual framework for metadata quality assessment*. Proceeding in conference of Dublin core and metadata applications, pp. 104-114.
- Marketos, G., & Theodoridis, Y. (2010). *Ad-hoc OLAP on trajectory data*. In Eleventh International Conference on Mobile Data Management (MDM), IEEE, pp. 189-198.
- Marshall, C. C., & Bly, S. (2004). Sharing encountered information: Digital libraries get a social life. Paper presented at the International Conference on Digital Libraries, Proceedings of the 4th ACM/IEEE-CS joint conference on Digital Libraries, Tuscon, AZ.

- Martyn, T. (2004). Reconsidering multi-dimensional schemas. *ACM Sigmod Record*, 33(1), 83-88.
- Mason, W. A. (1987). Distributed processing: The state of the art. *Byte*, pp. 291-297.
- Matab, E. A. (2006). Electronic exchange of information between researchers: statistical study. *Al-Mustansiriya Journal of Arts*, (45), 1-26.
- Matab, H. K. & Al-Atawi, (2007). The Role of the Regulatory Climate in Promoting the Behavior of the Dissemination of Knowledge in Educational Institutions (Case Study at the University of Qadisiyah). *Al-Qadisiya Journal for Administrative and Economic Sciences*, (4), 107-124.
- Matab, H. K., & Dhahr, R. J. (2006). The use of modern information technologies in the development of educational curricula "survey of the views of a sample of faculty members at universities in the Middle Euphrates Iraq.". *Al-Qadisiya Journal For Administrative and Economic sciences*, (2), 21-34.
- McCluney, F. (2011). *Decentralization in Iraq Challenges and solutions for the federal and local governments*. Paper presented at the International Conference on Decentralization, Local Governance and Service Delivery: Sharing Experience and Sustaining Progress in Urban Iraq,, Amman, Jordan.
- Mehdi, S. A., & Ahmed, H. M. (2011). An Evaluation of Al Mustansiriah University Faculty Members Use of the Internet in Scientific Research. *Journal of the college of basic education*, (68), 299-318.
- Mendes Calo, K., Cenci, K. M., Fillottrani, P. R., & Estevez, E. C. (2012). Information sharing benefits. *Journal of Computer Science & Technology*, 12(2), 49-55.
- Mendes Calo, K., Cenci, K., Fillottrani, P., & Estevez, E. (2014). *Government information sharing: a model for classifying benefits, barriers and risks*. In Proceedings of the 8th International Conference on Theory and Practice of Electronic Governance (pp. 204-212). ACM.
- Mohammed, F. Y. (2013). Administrative decision-making strategies Concepts - theories factors affecting. *Journal of Educational and Psychological Researches*, (36), 21-57.
- Mohammed, G. N., (2016, July, 15). Skype.
- Mohammed, M. A. (2010). The Information Effect in Iraqi Universities. *Journal of The College of Education for Women*, 21(1), 101-123.
- MOHERS, (2012). National Strategy for Education and Higher Education in Iraq (center and the region) executive summary. Retrieved from <http://www.moheer.gov.iq/uploads/pdf/Iraqi%20Stratigy%202014.pdf>.
- MOHERS (Producer). (2012). The speech of Iraqi Minister of Higher education in seminar of discussion the strategic development of the educational process. Retrieved from <http://www.youtube.com/watch?v=EIEIU7CZUV8>
- MOHERS, (2014). Higher Education and Scientific Research: Number and Facts, achievements of three years, 2011, 2012 & 2013. Retrieved from <http://moheer.gov.iq/uploads/pdf/Ministry%20Achivement%20details2014.pdf>.
- MOHERS. (2004). Strategies of the Iraqi Ministry of Higher Education and Scientific Research. Baghdad: Ministry of Higher Education Scientific Research.
- MOHERS. (2013). Ministry of Higher Education Science Research. Retrieved April 4,, 2013, from <http://www.moheer.gov.iq/PageViewer.aspx?id=16>.
- Mok, K. H. (2007). Questing for internationalization of universities in Asia: Critical reflections. *Journal of Studies in International Education*, 11(3), 433-454.
- Mok, K. H. (2008). Singapore's global education hub ambitions: university governance change and transnational higher education. *International Journal of Educational Management*, 22(6), 527-546.

- Mok, K.H. (2003). "Decentralization and marketization of education in Singapore: a case study of the school excellence model", *International Journal of Educational Administration*, 41(4), 348-66.
- Mok, K.H. (2005). "Fostering entrepreneurship: changing role of government and higher education governance in Hong Kong", *Research Policy*, 34(4), 537-54.
- Muhii, M. A. (2009). Quality of information and its impact on the effectiveness of applied Alaqardrash in Babylon University. *AL-Qadisiya Journal for Administrative and Economic sciences*, (1), 79-94.
- Nash, R. (2008) *Data and Privacy; How concerned are citizens about data sharing in the public services?*, Institute for Insight in the Public Services (IIPS).
- Navarrete, C., Gil-Garcia, J. R., Mellouli, S., Pardo, T., & Scholl, J. (2010). *Multinational e-government collaboration, information sharing, and interoperability: An integrative model*. In International Conference on System Sciences (HICSS), 2010 43rd Hawaii (pp. 1-10). IEEE.
- Nayyar, J., & Naqvi, S. S. H. (2013). Proposed model of entrepreneurial mindset for the state government higher education institutions in Pakistan. *Journal of Enterprising Communities: People and Places in the Global Economy*, 7(2), 167-182.
- Newcomer, K. E., & Caudle, S. L. (1991). Evaluating public sector information systems: More than meets the eye. *Public Administration Review*, 377-384.
- Nimmagadda, S. L., & Dreher, H. (2007). *Ontology based data warehouse modeling and mining of earthquake data: prediction analysis along Eurasian-Australian continental plates*. In 5th International Conference on Industrial Informatics, IEEE, Vol. 1, pp. 597-602.
- Nori, H. S. (2013). Evaluation of Integrated Information Technology System in Organizations "Exploratory Comparative Search for opinions of sample of Workers in the Faculties of Science & Education AL- Asma'I at the University of Diyala. *Journal of Economics and Administrative Sciences*, 19(71), 166-191.
- Ouma, F. K. (2014). *Impediments to interagency statistical information sharing amongst government agencies in Uganda: A G2G adoption*. In Proceedings at IST-Africa Conference, IEEE (pp. 1-11).
- Paanakker, H. L. (2009). *Higher Education in Iraq under Attack*. Master thesis, University of Amsterdam.
- Pallant, J., (2013). SPSS Survival Manual: A Step by Step Guide to Data Analysis Using IBM Spss. *Survival Manual*. Washington DC: McGraw Hill.
- Pardo, T. A., & Tayi, G. K. (2007). Interorganizational information integration: A key enabler for digital government. *Government Information Quarterly*, 24(4), 691-715.
- Pardo, T. A., Cresswell, A. M., Dawes, S. S., & Burke, G. B. (2004). *Modeling the social & technical processes of interorganizational information integration*. Proceedings of the 37th Annual Hawaii International Conference on System Sciences.
- Pardo, T. A., Cresswell, A. M., Thompson, F., & Zhang, J. (2006). Knowledge sharing in cross-boundary information system development in the public sector. *Information Technology and Management*, 7(4), 293-313.
- Paulraj, M., & Sivaprakasam, P. (2012). Functional Behavior Pattern for Data Mart Based on Attribute Relativity. *IJCSI International Journal of Computer Science Issues*, 9(4), 278-283.

- Premkumar, G. and Ramamurthy, K. (1995) "The Role of Interorganizational and Organizational Factors on the Decision Mode for Adoption of Interorganizational Systems, *Decision Sciences*, 26(3), 303-336.
- Prybutok, V. R., Zhang, X., & Ryan, S. D. (2008). Evaluating leadership, IT quality, and net benefits in an e-government environment. *Information & Management*, 45(3), 143-152.
- Qi, X., & Quan-hong, S. (2011). *The Research of Information Sharing Platform Based on Data Warehouse in Fossil Power Plant*. In International Conference on Computational and Information Sciences, IEEE pp. 227-229.
- Rabinovitch, j. (2011). *Decentralization in Iraq challenges and solutions for the federal and local governments*. Paper presented at the International Conference on Decentralization, Local Governance and Service Delivery: Sharing Experience and Sustaining Progress in Urban Iraq, . Amman, Jordan.
- Ramamurthy, K., Premkumar, G. and Crum, M.R. (1999) 'Organizational and interorganizational determinants of EDI diffusion and organizational performance: a cause model', *Journal of Organizational Computing and Electronic Commerce*, 9(4), 253–285.
- Ranjan, R. K., & Jain, P. C. (2009). The Decline of Educational System In Iraq. *Journal of peace studies*, 16(1-2).
- Rashid, N. H. (2011). The role of the auditor in giving confidence accounting data published on the internet in e-commerce environment. *Tikrit Journal For Administrative & Economics Sciences*, (23), 173-197.
- Razavi, M. N., & Iverson, L. (2006). A grounded theory of information sharing behavior in a personal learning space. In *Proceedings of the 2006 20th anniversary conference on Computer supported cooperative work* (pp. 459-468). ACM.
- Rifaieh, R., & Benharkat, N. A. (2002). *Query-based data warehousing tool*. Paper presented at the Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP.
- Rioux, K. S. (2005). Information acquiring-and-sharing. In K. E. Fisher, S. Erdelez, & L. McKechnie (Eds.), *Theories of information behavior* (pp. 169–173). Medford, NJ: Information Today.
- Rioux, K. S., Hersberger, J. A., & Cruitt, R. O. (2005). Examining information sharing and relationship building in online social networks: An emergent analytic framework. Paper presented at the 33th Annual Conference of the Canadian Association for Information Science, London, Ontario..
- Rob, P., Coronel, C., & Crockett, K. (2008). *Database System: Cengage Learning*.
- Rogers, E.M. (1995) *Diffusion of innovations*, Simon and Schuster.
- Rukanova, B., van Stijn, E., Henriksen, H.Z., Baida, Z. and Tan, Y.H. (2009). Understanding the influence of multiple levels of governments on the development of inter-organizational systems. *European Journal of Information Systems*, 18(5), 387-408.
- Said, M. M. (2011). Centralization and Decentralization in Iraq and Future Prospects. *Journal of the planner and development*, (24), 99-108.
- Sair, A., Erraha, B., Elkyl, M., & Loudcher, S. (2012). Prediction in OLAP Cube. *IJCSI International Journal of Computer Science Issues*, 9(4), 449-458.
- Salman, O., H., Abdul-Majeed G., & Ismaeel, T. Z. (2012). Evaluation Of Electronic Government Security Issues Applied To Computer Center Of Baghdad University (CASE STUDY). *Journal of Engineering*, 18(3), 364-380.

- Sankaran, M., Suresh, S, Gupta, S, Nesamoney, D., & Mukhopadhyay, P. (1998). Apparatus and Method for Capturing and Propagating Changes from an Operational Database to Data Marts: WO Patent 1,998,050,868.
- Saunders, C.S. and Clark, S. (1992) "EDI adoption and implementation: A focus on interorganizational linkages.", *Information Resource Management Journal*, 5(1), 9-19.
- Saunders, M. N., Lewis, P., & Thornhill, A. (2011). *Research methods for business students, Fifth Ed.* Pearson Education India.
- Sayogo, D. S., & Gil-Garcia, J. R. (2014). *Understanding the determinants of success in inter-organizational information sharing initiatives: results from a national survey.* In Proceedings of the 15th Annual International Conference on Digital Government Research (pp. 100-109). ACM.
- Scholl, H.J.J. and Klischewski, R. (2007) "E-government integration and interoperability: framing the research agenda", *International Journal of Public Administration*, vol. 30, no. 8, pp. 889-920.
- Sekaran, U., & Bougie, R. (2010). *Research methods for business: A skill building approach.* Wiley: London.
- Shah, A. (2011). *Decentralization in Iraq challenges and solutions for the federal and local governments.* Paper presented at the International Conference on Decentralization, local governance and service Delivery: sharing experience and sustaining progress in urban Iraq, Aman, Jordan.
- Shahzad, K. (2009). Semi-star schema for operational and analytical requirements of SMEs. *International Journal of Management and Decision Making*, 10(1), 33-52.
- Shama, M. J. A. (2007). Decentralization impacts on regional development. *Journal Planned and Development*. (17), 96-119.
- Shin, S. K. Ishman, M.Sanders, G.L. (2007). An empirical investigation of socio-cultural factors of information sharing in China. *Information & Management* 44 (2), 165–174.
- Sohn, K. J., Yoo, W. J., & Lee, C. G. (2007). *The Design and Implementation of Information System for the MBO of National R&D Projects Cooperated by Industries, Universities and Government-supported Research Institutes.* In Portland International Center conference for Management of Engineering and Technology, IEEE, pp. 959-966.
- Song, J., Bao, Y., & Shi, J. (2010). *A Triggering and Scheduling Approach for ETL in a Real-time Data Warehouse.* In 10th International Conference on Computer and Information Technology, IEEE, pp. 91-98.
- Staples, D. S., & Seddon, P. (2004). Testing the technology-to-performance chain model. *Journal of Organizational and End User Computing*, 16(4), 17-36.
- Staples, D.S., Hulland, J.S., and Higgins, C.A. (1999) "A Self-Efficacy Theory Explanation for the Management of Remote Workers in Virtual Organizations," *Organization Science*, 10:6, pp. 758-776.
- Straub, D., Boudreau, M. C., & Gefen, D. (2004). Validation guidelines for IS positivist research. *The Communications of the Association for Information Systems*, 13(1), 380-427
- Sujarwoto and Nugroho, Y. (2011). Decentralization and Government Online Networking in Indonesia. *PhD thesis, University of Manchester.*
- Suresh, S. S., & Mahale, M. (2011). Student performance analytics using data warehouse in e-governance system. *International Journal of Computer Applications*, 20(6), 19-25.

- Syvjärvi, A., Stenvall, J., Laitinen, I., & Harisalo, R. (2009). *Information Management as Function of Data Mining and ICT in City Government*. Conference of European Group for Public Administration Research, Malta.
- Tao, Y., Zhu, Q., Zuzarte, C., & Lau, W. (2003). *Optimizing large star-schema queries with snowflakes via heuristic-based query rewriting*. Paper presented at the Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research, pp.279-293.
- Taylor, E. (2012). *Teaching data warehouses in collaboration with industry: Bridging the expectations gap*. In International Conference on Information Society (i-Society), IEEE, pp. 366-369.
- Thomas, M. S., Srivastava, N., & Prakash, A. (2010). *Waveform extraction and information exchange for data warehousing in power utilities*. Paper presented at the Joint International Conference on Power Electronics, Drives and Energy Systems, IEEE, pp. 1-7.
- Thomas, R. and Walport, M. (2008) *Data Sharing Review*, UK Ministry of Justice.
- Thong, J.Y.L. (1999) 'An integrated model of information systems adoption in small business', *Journal of Management Information Systems*, 15(4), 187–214.
- Tie-nan, Z., Juan, C., & Ai-li, L. (2010, November). Analysis on influencing factors of scientific and technological resources sharing based on the structural equation model. In *International Conference on Management Science and Engineering*, IEEE, pp. 1537-1543.
- Tornatzky, L., & Fleischer, M. (1990). *The Process of Technological Innovation*: Lexington Books.
- Trochim, W. M. (2008). Introduction to evaluation. Available at: <http://www.socialresearchmethods.net/kb/intreval.htm>
- Turban, E., Aronson, J., Liang, T., & Sharda, R. (2007). *Decision support and business intelligence systems*: Pearson Education India.
- Türkmen, G. (2007). *Developing a Data Warehouse for a University Decision Support System*: Master thesis, Atılım Üniversitesi.
- UN. (2008). *United Nations e-government survey 2008: From e-government to connected governance*: UN.
- UN. (2010). *United Nations E-Government Survey 2010: Leveraging E-Government at a Time of Financial and Economic Crisis* (Vol. 10): United Nations Publications.
- UN. (2012). *United Nations E-Government Survey 2012, E-Government for the People*: United Nation.
- UNESCO. (2004). *Iraq: Education in Transition, Needs and Challenges*. Paris: UNESCO.
- UNESCO. (2010). *UNESCO Iraq Office Newsletter* (Vol. 2): UNESCO.
- UNESCO, (2011). *National Education Support Strategy*. Republic of Iraq | 2010-2014.
- UOB. (2013a). *Center of E-government in University of Babylon*. Retrieved March 10, 2013, from <http://www.uobabylon.edu.iq/nt/>
- UOB. (2013b). *University of Babylon*, from <http://www.uobabylon.edu.iq/nt/faculties.aspx>
- UOK. (2013). *University of Al-Kufa*, from <http://www.uokufa.edu.iq/en/>
- UOQ. (2013). *University of Al-Qadisiyah*, from <http://www.qadissuni.edu.iq/English/>
- Velicanu, M., & Matei, G. (2007). Database Vs Data Warehouse. *Informatica Economica*, 11(3), 91-95.

- Volkoff, O., Chan, Y. E., & Newson, E. F. P. (1999). Leading the development and implementation of collaborative interorganizational systems. *Information & Management*, 35(2), 63-75.
- Wai, T. T., & Aung, S. S. (2009). *Metadata Based Student Data Extraction from Universities Data Warehouse*. In International Conference on Signal Processing Systems, IEEE pp. 670-673.
- Wegner, D. M. (1987). Transactive memory: A contemporary analysis of the group mind. In *Theories of group behavior* (pp. 185-208). Springer New York.
- Wegner, D. M., Erber, R., & Raymond, P. (1991). Transactive memory in close relationships. *Journal of personality and social psychology*, 61(6), 923-929.
- Wegner, D. M., Giuliano, T., & Hertel, P. T. (1985). Cognitive interdependence in close relationships. In *Compatible and incompatible relationships* (pp. 253-276). Springer New York.
- Wilhelm, I. (2012). Iraq Presses Ahead With Global Partnerships Despite Challenges. *The Chronicle of Higher Education*.
- Williams, T. (1997). Interorganizational Information Systems: Issues Affecting Interorganizational Cooperation. *Journal of Strategic Information Systems*, (6), 231-250.
- Wixom, B. H., & Watson, H. J. (2001). An empirical investigation of the factors affecting data warehousing success. *MIS quarterly*, 25(1), 17-32.
- Wu, L., Miller, L., & Nilakanta, S. (2001). Design of data warehouses using metadata. *Information and Software Technology*, 43(2), 109-119.
- Xiao-rong, J., & Sui-cheng, L. (2010). *The Study on the Influencing Factors on Information Sharing and Information Quality*. In International Conference on Information Management, Innovation Management and Industrial Engineering, IEEE, Vol. 1, pp. 57-61.
- Xu, J., Li, X., & Zhao, X. (2011). *Design of database architecture in the saas-based multi-tenant educational information system*. Paper presented at 6th International Conference on the Computer Science & Education, IEEE, pp. 114-119.
- Yan, Z., Sun, B., & Wang, T. (2009). *A study on information sharing of e-government*. In International Conference on Grey Systems and Intelligent Services, IEEE, pp. 1331-1335.
- Yang, T. M. (2012). The complexity of cross-boundary information sharing: an organizational perspective on Taiwan e-government. In *Proceedings of the 6th International Conference on Theory and Practice of Electronic Governance* (pp. 143-145). ACM.
- Yang, T. M., & Wu, Y. J. (2013). What to share and why to share? A case study of cross-boundary information sharing in Taiwan e-Government. *Journal of Library and Informaiton Studies*, 11, 25-53.
- Yang, T. M., Pardo, T., & Wu, Y. J. (2014). How is information shared across the boundaries of government agencies? An e-Government case study. *Government Information Quarterly*, 31(4), 637-652.
- Yang, T., & Maxwell, T. A. (2011). Information-sharing in public organizations: A literature review of interpersonal, intra-organizational and inter-organizational success factors. *Government Information Quarterly*, 28(2), 164-175.
- Yang, T., Zheng, L., & Pardo, T. (2012). The boundaries of information sharing and integration: A case study of Taiwan e-Government. *Government Information Quarterly*, 29, S51-S60.

- Yanosky, R. (2009). *Institutional data management in higher education*. ECAR, EDUCAUSE Center for Applied Research, p.1-13.
- Yousif, S. K. (2012). The Diagnostic of Organizational Structure Style in Iraqi Education Institutions: A Case Study in the Salahaddin University-Erbil. *Development Rafidain Journal*, 34(110), 199-216.
- Zaheer, A., McEvily, B. and Perrone, V. (1998). Does trust matter? Exploring the effects of interorganizational and interpersonal trust on performance. *Organization Science*, 9(2), 141-159.
- Zeng, Y., Chiang, R. L., & Yen, D. C. (2003). Enterprise integration with advanced information technologies: ERP and data warehousing. *Information Management & Computer Security*, 11(3), 115-122.
- Zhang, J., & Dawes, S. S. (2006). Expectations and perceptions of benefits, barriers, and success in public sector knowledge networks. *Public Performance & Management Review*, 29(4), 433-466.
- Zhou, N., Wang, H., Han, X., & Zhang, X. (2010). *Constructing Performance Management Information System for Academic Staff: A Model for Research-intensive Universities*. In International Conference on E-Business and E-Government (ICEE), IEEE, pp. 464-467.
- Zikmund, W. G. (2003). *Business Research Methods* (7th ed.). Toronto: Dryden Press.
- Zuriani, A. Z. (2011). *A Framework for Ethical Usage of ICT Services at Cyber Cafe Using Theory of Planned Behavior* (Doctoral dissertation, Universiti Utara Malaysia).



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APPENDIX A

Interview Questions

The main purpose of this research is to identify the type of information that shared between in MOHESR and public universities and also to illustrate the barriers that Higher Education sector face while sharing these information. Moreover, the interview also need to proof the sixteen electronic information sharing factors that can increase the share of information electronically between MOHESR and public universities.

Name: Dr. Ghassan Alashat Mohammed
 Email: ghassan@u.uq.edu.au
 Mobile: 0964728502452
 Age: 47
 Gender: Male
 Position: Computer Center in MOHESR
 Education level: PhD
 Background: Information Technology

1-To what extent are the following types of communication used by your Ministry to share information electronically with public universities? Please tick the answer (✓). You can choose more than one answer.

Communication Type	(✓)
Phone line/ Mobile	✓
Email	✓
Websites	✓
Webcam	x exist but not used
Shared Databases	x
Other communication (Please add)	CD or DVD

2-What is the status of electronic information sharing MOHESR and public universities in Iraq? Please tick the answer (✓).

University	Status of electronic sharing with MOEHSR		
	Poor	Moderate	Good
University of Kufa		✓	
University of Babylon		✓	
University of Al-Qadisiyah	✓	✓	
University of Karbala		✓	
University of Al-Muthanna	✓		

3- How frequently do you use these devices to share the information? Please tick the answer (✓). You can choose more than one answer.

Electronic device	Never use	Less than one time in a month	Once a month	a few times a month	a few times a week	Few times a day
Mobile phone					✓	
Email					✓	
Websites				✓		

Webcam		<input checked="" type="checkbox"/>				
Shared Databases	<input checked="" type="checkbox"/>					
Other devices (Please add)		<input checked="" type="checkbox"/>				

4-Approximately what is the percent of all information shared electronically between your Ministry and public universities?

0% [] 1-20% [] 21-40% [] 41-60% [] 61-80% 81-100% []

5-Approximately how long has your Ministry been sharing information electronically with public universities?

0 [] <1 Year [] 1-3 Years [] 4-6 Years [] 7-9 Years 10+ Years []

6- Describe the types of information (e.g. student information, staff information, Policies and Rules, etc.) that your Ministry shares with public universities. Please tick the answer (✓). You can choose more than one answer.

Types of information	Percentage of Sharing Electronically					
	0%	1-20%	21-40%	41-60%	61-80%	81-100%
Student information					<input checked="" type="checkbox"/>	
Administrative staff information				<input checked="" type="checkbox"/>		
Academic staff information					<input checked="" type="checkbox"/>	
Guidelines and suggestions				<input checked="" type="checkbox"/>		
Dispatches					<input checked="" type="checkbox"/>	
Scholarships and studies				<input checked="" type="checkbox"/>		
Policies and rules					<input checked="" type="checkbox"/>	
Guidelines				<input checked="" type="checkbox"/>		
Other types of information (Please add)						

7-Do you think that Ministry of Higher Education willing to increase the electronic information sharing between Ministry and its public university?

Yes No []

8-Do you think that Ministry of Higher Education can develop a common storage concept (such as Data Warehouse technology) in order to increase the electronic information sharing between Ministry and the public university?

Yes No []

9-What are the barrier that affectthe electronic information sharing between MOHESR and public universities?

University	Barriers of sharing information electronically			
	Electronic information sharing	Technological	Organizational	Environment
all the universities	/	/	/	/

10-What are the factors that affected your Ministry to share information electronically with its public universities?

Top management, IT capability, Trust, Policies, compatibility
 Information Quality, multi database issues such as different format and software

11-1 Benefits

What are the benefits for your Ministry to participate in sharing the information electronically?

speed up, accuracy, cost of document, time, reduce the cost, reduce the corruption, ease the process.

11-2 Costs

What are the costs for your Ministry to participate in sharing the information electronically?

There is no cost at all because we already have the computers & software & staff.

11-3 Risks

What are the risks for your Ministry to participate in sharing the information electronically?

There are no much risk in using ELS.

11-4 IT Capability

A- How much of your Ministry operations are computerized?

We have computers enough.

B- How many IT people do you have?

We need IT staff to fix the problem.

11-5 Information Quality

A- Do you think data quality can be considered as a vital factor influencing Electronic Information Sharing?

It is very important and we need it

B- Dose the current information has the quality to be shared Public Universities and MOHESR?

There are many mistakes with universities information

11-6 Compatibility

A- Is it important to have IT compatible (software, hardware and IT skills) between public universities and MOHESR?

It is important to have compatibility between us and the universities

B- What is the current situation of IT compatibility between public universities and MOHESR?

There is no such thing, still we need to be compatible between us.

11-7 Complexity

A- Do you think that sharing information electronically is an easy process?

It is not a complex it is easy

B- What are the difficult concepts of sharing the information electronically with public universities?

There is no real GIS project we still in the sample concept

11-8 Data Warehouse

A- Do you think that, store public universities and MOHESR information in common storage (data warehouse) can increase the electronic information sharing?

Sure, it can increase electronic information sharing

B- What are the challenges that Ministry face if the planned to share their information by using data warehouse?

IT staff cost, hardware, software, Top management

11-9 Top Management Support

A- Do you think that the top manager in the public universities can increase the participation of electronic information sharing with Ministry by encourage the university staff?

..... everything belong to them so they should believe in that

B- In your opinion, what are the things that top managers in public universities can do in order to encourage their staff to share the university's information electronically with MOHESR?

..... by giving ~~the~~ training, letter of thanks for participation or incentive

11-10 Collaboration

Electronic Information sharing project can be success by collaborate the ministry and public universities together, what do you think?

..... We should collaborate between us but most of the responsibility belong to the ministry

11-11 Size

A- Do you think the size of your public university can increase the electronic information sharing?

..... sure because the big university will have more staff, students and experience

B- Do you think that big number of information system and IT skills can increase the electronic information sharing?

..... Sure the IT skill and computer can affect

11-12 Policy/Legal Framework

A- Do you think that rules and laws are important to protect the participants while share their information electronically?

..... we need rules and laws by sure

B- What are the rules that MOHESR made to protect the staff while using the ICT devices to share their information electronically?

..... we do not have yet

C- If there are rules, do you thing that these rules are enough to protect and encourage the public universities employees to share their information electronically with MOHESR?

.....

11-13 Interagency Trust

A- Are there any issues of trust between your Ministry and the public universities in receiving the information and using it?

..... Yes we have trust because universities belong to ministry and it's government sector (no competition)

B- Do the Ministry and public universities' employees trust the sharing their information electronically?

There is trust but it is not enough because it is depend on the employee.

11-14 Upper level Leadership

A- What is the level of control that MOHESR has on its public universities?

Yes sure, the MOHESR has high control.

B- Do you think that MOHESR has positive or negative influence on public universities which can affect the electronic information sharing between them?

MOHESR has positive influence on public universities.

C- Does Ministry of Higher Education have a role to order or request the public universities to share their information electronically?

It is depend in some time the Ministry give orders and sometimes the request is enough.

11-15 Critical Mass

Do you think that the number of universities participating in electronic information sharing can affect or encourage the participation of other universities?

Yes, it can encourage other universities.

Are the public universities willing to increase the number of information that share electronically with MOHESR?

Yes, the universities are willing to do that.

11-16 Social Network

A- What are the relationships between employees in MOHESR and public universities?

There are normal relationships between us.

B- Do the Employees in MOHESR and public universities have a good relationship?

Yes, their relationship is good between us.

C- Do you agree that the relationships between employees in both sides can increase the trust among the staff in higher education sector?

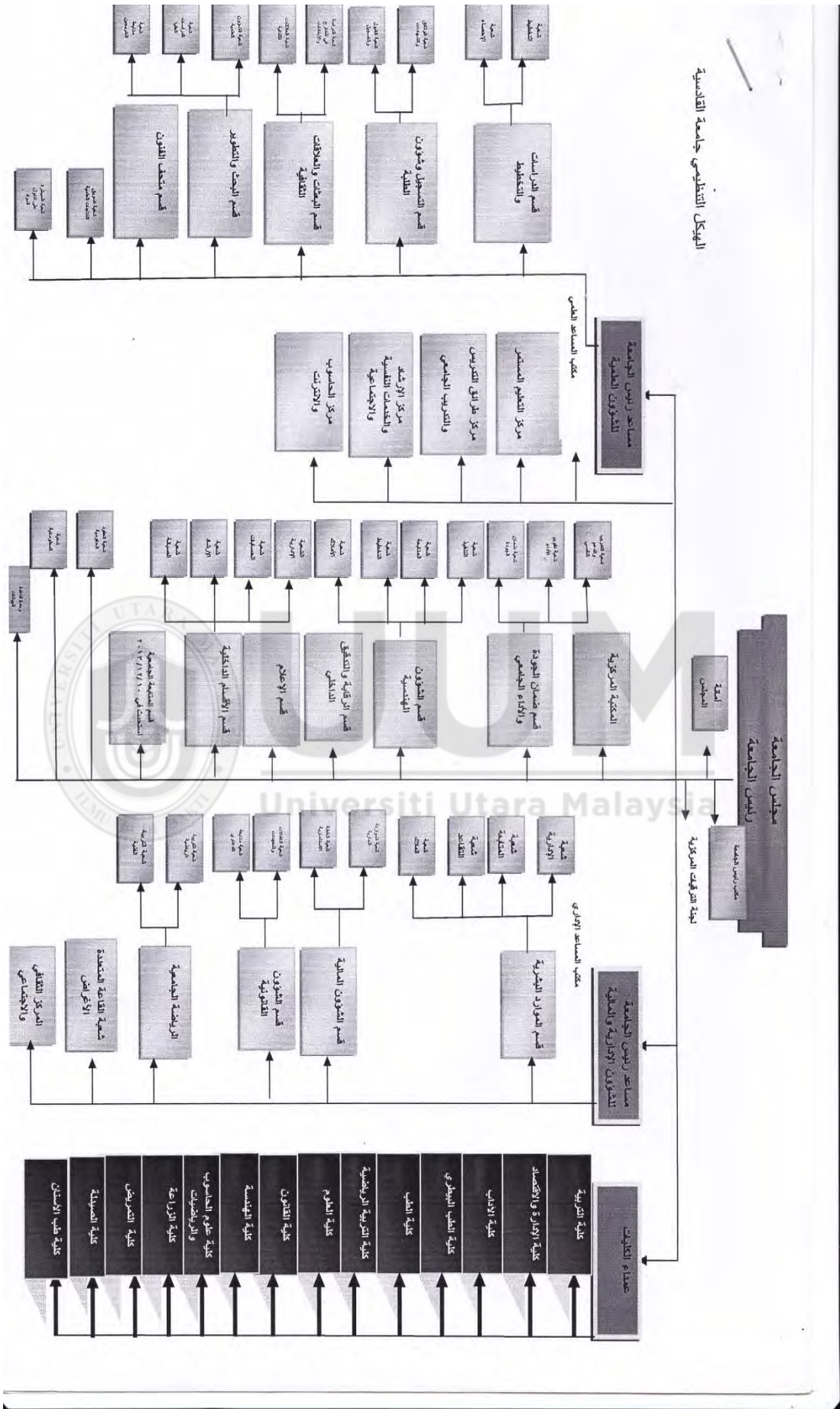
Yes, it can increase the trust because it increases the trust.

D- Is the relationship between the employees (relative, friends, mates and so on) effect the participation of sharing information electronically between public universities and MOHESR?

Yes, it can effect positively.

12- Do you have any thing that you would like to add or make it more understandable?

الهيكل التنظيمي جامعة القادسية



الهيكل التنظيمي بجامعة بابن

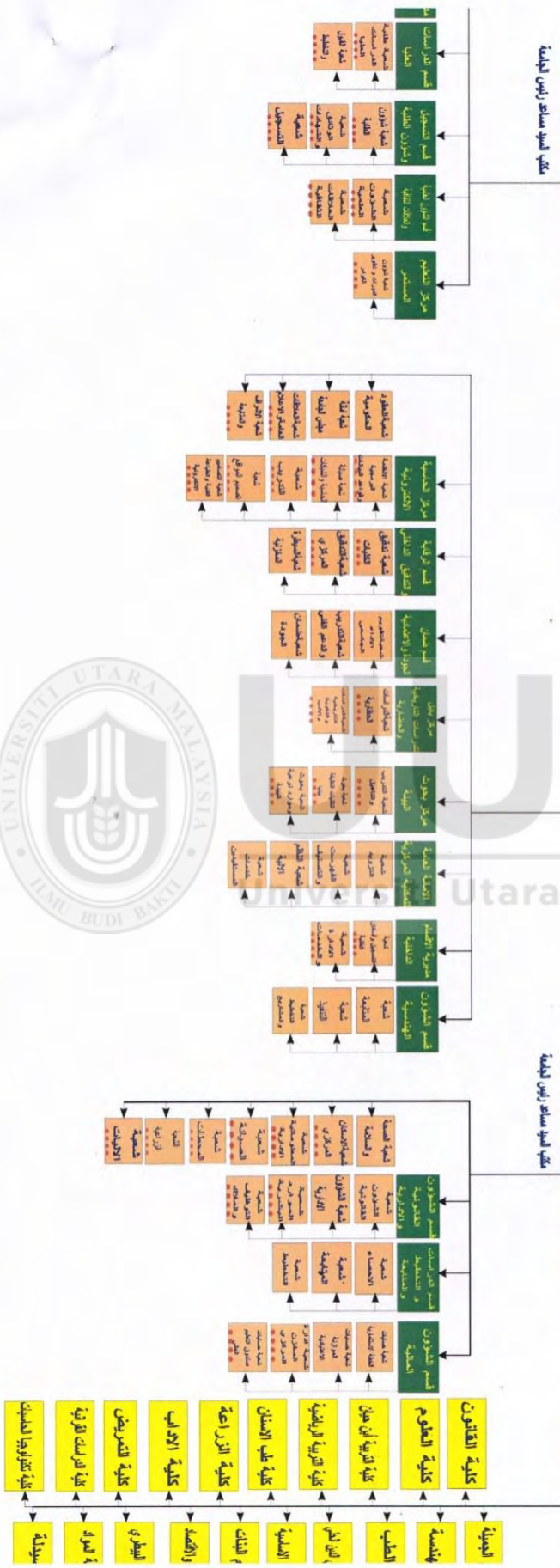
مجلس الجامعة
رئيس الجامعة

مكتب السيد رئيس الجامعة
لجنة الترقيات العلمية والتصنيف

مجلس امناء ريس الجامعة

مجلس امناء ريس الجامعة

مجلس الكليات



2011/1/18



خارطة الهيكل التنظيمي لجامعة الكوفة

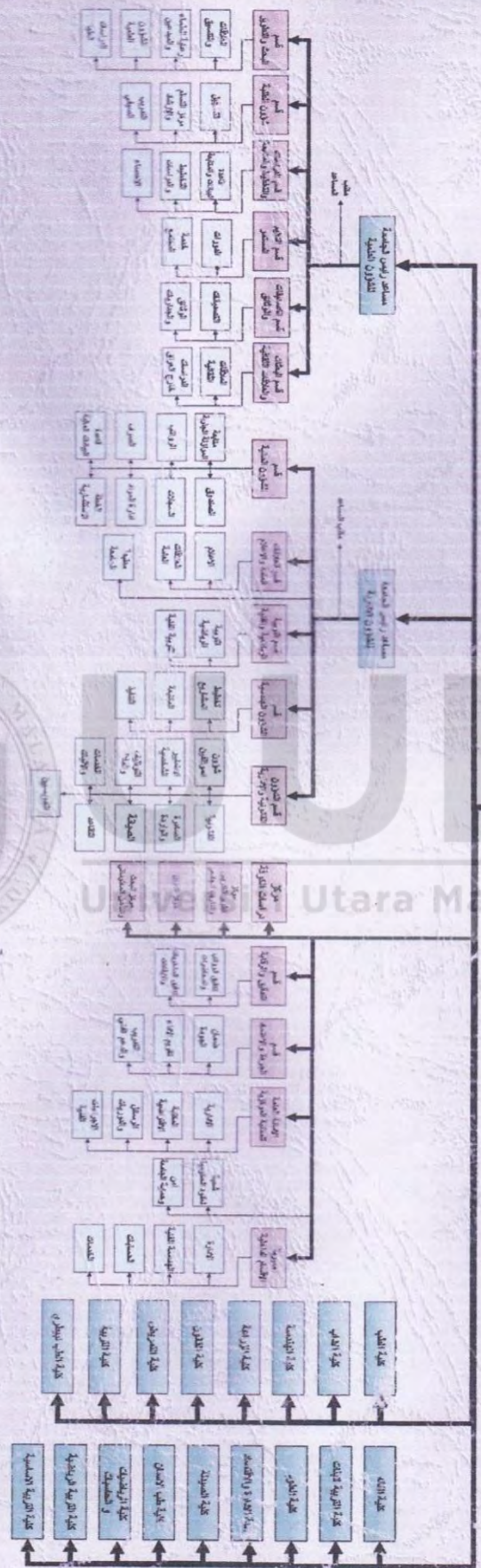


جامعة الكوفة
Kerbalah University

مجلس الجامعة
رئيس الجامعة

مجلس الجامعة
مجلس الجامعة

مركز التعليم الإلكتروني



تم اعتماد هذه الخارطة بموجب كتاب الوزارة /الدائرة الإدارية والادارية ذي العدد ٢٠١٧/٤٠١ في ٢٠١٧/٤/١٢ والموافق عليه من قبل معالي الوزير بموجب كتاب الوزارة /مكتب المستشار المرقم ٧٥ في ٢٠١٧/٤/١٢

مجلس الجامعة
مجلس الجامعة
مجلس الجامعة
مجلس الجامعة

APPENDIX C

NAME OF THE DEPARTMENTS

اقسام رئاسة جامعة كربلاء

المجلة	البحوث والتطوير
التسجيل وشؤون الطلبة	التعليم المستمر
المساعد الاداري	ضمان الجودة
المسابقات	المكتبة المركزية
مركز الحاسبة	الاقسام الداخلية
الادارية	المالية
مكتب رئيس الجامعة	الرقابة والتدقيق الداخلي
القانونية	امانة مجلس الجامعة
شعبة الصيانة	الشؤون الهندسية
الاعلام والعلاقات العامة	مختبر اللغة الانكليزية
التفريعات	شعبة المتابعة

APPENDIX D
OFFICIAL LETTERS

Date: 2nd April 2014

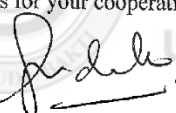
To whom it may concern

DATA COLLECTION AND SAMPLING

Mohammed Abdulameer Mohammed (Passport no. A6332037) is a PhD student of Universiti Utara Malaysia, Malaysia. Under my supervision, he is doing a study on Iraqi public universities regarding *Electronic Information Sharing between Iraqi Public Universities and Ministry of Higher Education and Scientific Research*. As a part of completing his study, he needs to do data collection from the public universities.

Kindly please give your full assistance and support to him in conducting data collection from your institution.

Thanks for your cooperation.


(ASSOC. PROF. DR. HUDA IBRAHIM)

Dean
School of Computing
Uum College Of Arts And Sciences
Universiti Utara Malaysia

ASSOC. PROF. DR. HUDA HAN IBRAHIM
Dean
School of Computing
UUM College of Arts & Sciences
Universiti Utara Malaysia

23-04-2014

السيد المستشار الثقافي المحترم

م/ تسهيل مهمة

تحية طيبة

اني محمد عبدالأمير محمد البوبافر صاحب جواز السفر المرقم (A6332037) مرشح لنيل شهادة الدكتوراة من جامعة اوتارا الماليزية على نفقتي الخاصة وبحثي في مجال تقنية المعلومات في بيئة التعليم الجامعي وعنوان اطروحتي هو:

«تبادل المعلومات الالكترونية بين الجامعات الحكومية العراقية و وزارة التعليم العالي والبحث العلمي لدعم مبدأ اللامركزية»

لذلك اني اتقدم بطلبي هذا كي انال موافقتكم على:-

- توزيع استبيان دراستي على موظفي رئاسة جامعة الكوفة، بابل، القادسية، كربلاء و المثنى.
- الحصول على عدد الموظفين العاملين بتلك الرئاسة لانهم عينة بحثي.
- الحصول على المخطط التنظيمي لهذه الجامعات الخمسة.

مع فائق الشكر والتقدير



محمد عبدالأمير محمد البوبافر

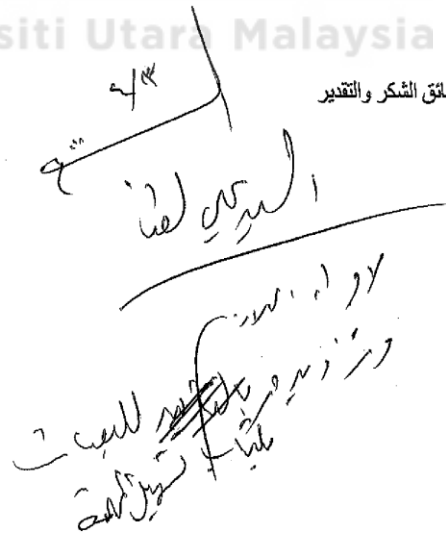
مرشح لنيل شهادة الدكتوراة من جامعة UUM

mhmdaldbagh@yahoo.com

+9647801280088

+60149035750

23-04-2014



السيد المستشار الثقافي
لاوان السيد المستشار الثقافي
مرشح لنيل شهادة الدكتوراة من جامعة UUM

Embassy of the Republic of Iraq
Cultural Attaché - Kuala Lumpur



سفارة جمهورية العراق
الدائرة الثقافية - كوالالمبور

ممثلة وزارة التعليم العالي والبحث العلمي المرافية في ماليزيا
Representative of the Iraqi Ministry of Higher Education and Scientific Research (MOHESR) in Malaysia

No : 1228
Date : 28 / 4 / 2014

العدد : ٤٤٨
التاريخ : ٢٠١٤ / ٤ / ٢٨

الى /وزارة التعليم العالي والبحث العلمي/ دائرة البعثات و العلاقات الثقافية
قسم شؤون الدارسين في الخارج / الوطن العربي و آسيا

م/ تسهيل مهمة

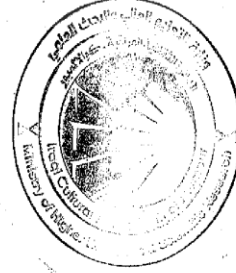
تحية طيبة

نحيل اليكم الطلب المقدم من قبل طالب النفقة الخاصة السيد محمد عبد الامير محمد الذي يدرس للحصول على شهادة الدكتوراه في اختصاص تقنية المعلومات من جامعة UUM الماليزية ، والذي يروم فيه مفاتحة دائرتكم الموقرة لغرض مخاطبة عدد من الجامعات العراقية لتسهيل مهمة بتوزيع استبيان دراسته على موظفي رئاسات الجامعات التالية (جامعة بابل و جامعة الكوفة و جامعة كربلاء و جامعة المثنى) و كما ورد في طلبه المرفق و جاحده الاخارسة .

للتفضل بالإطلاع ... مع التقدير

Universiti Utara Malaysia

أ.د. حسن هاشم سلمان
المستشار الثقافي
٢٠١٤/٤/٢٨



المرفقات:
- طلب الطالب.
- كتاب المرشف.

نسخة منه:
- ملف الطالب.
- الصادرة.

حزرة

Address: Unit 5.07 Level 5 North Block Ampwalk 218 Jalan Ampang Kuala Lumpur 50450 Malaysia
Tel: 0060 3216 30741 Website: iraqculturalattache-my.org Email: culturalofficemalaysia@yahoo.com Fax: 0060 3216 30742

Embassy of the Republic of Iraq
Cultural Attaché - Kuala Lumpur



سفارة جمهورية العراق
الدائرة الثقافية - كوالالمبور

ممثلة وزارة التعليم العالي والبحث العلمي العراقية في ماليزيا
Representative of the Iraqi Ministry of Higher Education and Scientific Research (MOHESR) in Malaysia

No : ١٦٥٥
Date : 3/ 6 / 2014

العدد : ١٦٥٥
التاريخ : ٢٠١٤ / ٦ / ٣

الى /وزارة التعليم العالي والبحث العلمي/ دائرة البعثات و العلاقات الثقافية
قسم شؤون الدارسين في الخارج / الوطن العربي و آسيا

م/ تسهيل مهمة

تحية طيبة

أحافاً بكتابنا المرقم ١٢٢٨ في ٢٨ / ٤ / ٢٠١٤ ،
تحيل اليكم الطلب المقدم من قبل طالب النفقة الخاصة السيد محمد عبد الامير محمد الذي يدرس
للحصول على شهادة الدكتوراه في اختصاص تقنية المعلومات من جامعة UUM الماليزية ، والذي
يروم فيه مفاتحة دائرتكم الموقرة لغرض مخاطبة عدد من الجامعات العراقية لتسهيل مهمته بتوزيع
استبيان دراسته على موظفي رئاسات الجامعات التالية (جامعة بابل و جامعة الكوفة و جامعة كربلاء و
جامعة المثنى و جامعة القادسية) و كما ورد في طلبه المرفق .

للتفضل بالإطلاع ... مع التقدير

Universiti Utara Malaysia

أ. د. حسن هاشم سلمان
المستشار الثقافي
٢٠١٤/٦/٣



المرفقات:
- طلب الطالب.
- كتاب المرشف.

نسخة منه:
- ملف الطالب.
- الصادرة.

حزرة

Address: Unit 5.07 Level 5 North Block Ampwalk 218 Jalan Ampang Kuala Lumpur 50450 Malaysia
Tel: 0060 3216 30741 Website: Iraqculturalattache-my.org Email: culturalofficemalaysia@yahoo.com Fax: 0060 3216 30742

APPENDIX E

MINISTRY'S OFFICIAL LETTER

بسم الله الرحمن الرحيم		جمهورية العراق وزارة التعليم العالي والبحث العلمي دائرة البعثات والعلاقات الثقافية قسم شؤون الدارسين في الخارج/الوطن واسيا
العدد: ص ب / ١٤ / التاريخ: ٢٠١٤ / ٦ / ٥		
الى / الجامعات جامعة بابل جامعة الكوفة ✓ جامعة كربلاء جامعة المثنى جامعة القادسية م / احالة		
تحية طيبة..		
<p>نحيل اليكم كتاب دائرتنا الثقافية في ماليزيا المرقم ١٦٠٠ في ٢٠١٤/٦/٢ بخصوص طلب طالب النفقة الخاصة في ماليزيا السيد محمد عبد الامير محمد و الذي يروم مخاطبة عدد من الجامعات العراقية لتسهيل مهمته</p> <ul style="list-style-type: none">• توزيع استبيان دراسته على موظفي رئاسات الجامعات التالية (جامعة بابل و جامعة الكوفة و جامعة كربلاء و جامعة المثنى و جامعة القادسية) و كما ورد في طلب الطالب.• الحصول على عدد الموظفين العاملين بتلك الرئاسات لانهم عينة بحثه.• الحصول على مخطط التنظيمي لهذة الجامعات <p>للتفضل بالاطلاع و اعلامنا بما جاء بطلب الموما اليه ... مع التقدير</p>		
المرفقات: كتاب الدائرة الثقافية في ماليزيا		
 صادق عامر ابونايلا مدير قسم شؤون الدارسين في الخارج		
٢٠١٤/٦/٥ محمد باقر		
نسخة منه إلى // • مكتب السيد المدير العام/للتفضل بالاطلاع... مع التقدير • قسم شؤون الدارسين في الخارج / الوطن العربي / نفقة/ ماليزيا		
محمد باقر //٦/٤		
موقع دائرة البعثات والعلاقات الثقافية: الدائرة:		
Website: www.Scrdiraq.com E-mail: scrd@moheer.gov.iq ايميل		

APPENDIX F

QUESTIONNAIRE SUBMISSION



University of Babylon (Um Zaid, 009647801177576)



UUM
Universiti Utara Malaysia



University of Al-Qadysih (Dr. Mohammed Hamzah, 009647809181781)





University of Kufa (Dr. Mahsan, 009647811906256)

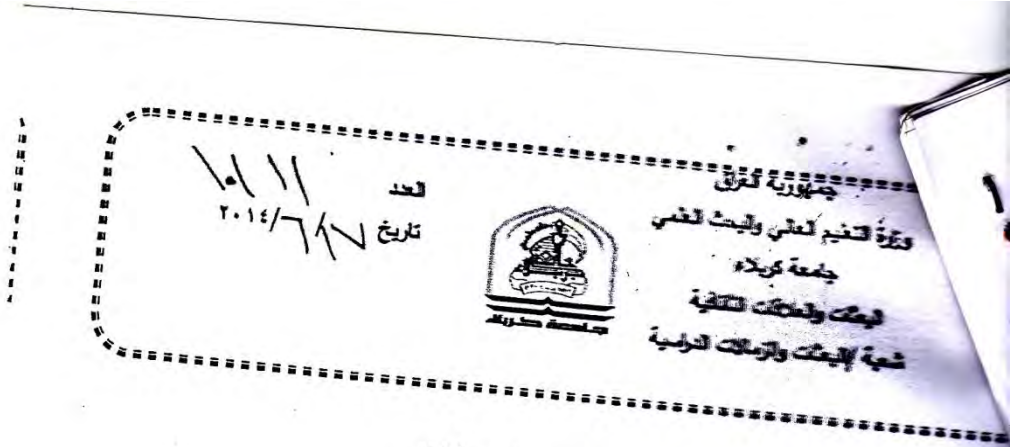


University of Karblaa (Mr. Ali Abood, 009647813213633)



APPENDIX G

DEPARTMENT'S OFFICIAL LETTER



الى / اقسام الرئاسة كافة

م / احالة

تحية طيبة :
نرفق لكم طياً نسخة من كتاب وزارة التعليم العالي والبحث العلمي/ دائرة البعثات
والعلاقات الثقافية/ قسم شؤون الدارسين في الخارج / الوطن واسيا المرقم ص
ب/١٤/١٧٦٩٣ في ٢٠١٤/٦/٥ والنخاص بطالب النفقة الخاصة في (ماليزيا)
السيد (محمد عبد الأمير محمد) وإشارة الى هامش السيد المساعد العلمي
المحترم يرجى التفضل بالأطلاع وتسهيل مهمته .
*** مع فائق الشكر والتقدير ***

أ.م.د. صباح واجد علي
مدير قسم البعثات والعلاقات الثقافية
٢٠١٤/٦/١٧

- نسخة منه الى //
- نسخة السيد المساعد لفضله مع التنوير
- ايرتبه وتضمنه التنصية
- المسند
* ٦ / ١٧ *

Republic of Iraq
Ministry of higher education &
Scientific Research
University of Babylon
Department of Scholarships &
Cultural Relations



جمهورية العراق
وزارة التعليم العالي والبحث العلمي
جامعة بابل
قسم البعثات والعلاقات الثقافية

العدد: ١٦٤٩

التاريخ: ١١/٦/٢٠١٤

الى : اقسام ومراكز الرئاسة
ما احالة

تحية طيبة:

ترافق لكم ربطا نسخة من كتاب وزارة التعليم العالي والبحث العلمي دائرة
البعثات والعلاقات الثقافية المرقم بالعدد ص ب ا ١٧٦٩٣١١٤ في ٢٠١٤/٦/١٥
للتفضل بالاطلاع والاجابة على الاستبيان على ان تردنا اجاباتكم في موعد اقصاه
يوم الاثنين ٢٠١٤/٦/١٦ راجين سرعة الاجابة ... مع الاحترام

المرفقات

١- كتاب الوزارة

٢- استمارة استبيان

د. عصام محمد الجبوري

مدير القسم

٢٠١٤/٦/١١

صورة منه الى //

- مكتب السيد المساعد رئيس الجامعة للشؤون العلمية المحترم ... مع الاحترام .
- قسم البعثات والعلاقات الثقافية ... مع الأوليات
- الصادرة.

Address: Iraq, Babylon, University of Babylon
www.uobabylon.edu.iq

Tel: 009647601010637
Email: babil_elmeaa@yahoo.com

١٤/٠٦/١١

بسم الله الرحمن الرحيم

١٧٦٩٢

العدد: ص ب / ١٤ /

التاريخ: / / ٢٠١٤

٦٥



وزارة التعليم العالي
والبحوث العلمي

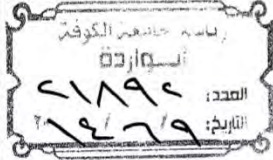
Ministry of Higher Education & Scientific Research

جمهورية العراق

وزارة التعليم العالي والبحث العلمي

دائرة البعثات والعلاقات الثقافية

قسم شؤون الدارسين في الخارج/الوطن واسبا



الى/ الجامعات
جامعة بابل
جامعة الكوفة
جامعة كربلاء
جامعة المثنى
جامعة القادسية
م/ احالة

تحية طيبة..

نحيل اليكم كتاب دائرتنا الثقافية في ماليزيا المرقم ١٦٠٠ في ٢٠١٤/٦/٢ بخصوص طلب طالب النفقة الخاصة

في ماليزيا السيد محمد عبد الامير محمد و الذي يروم مخاطبة عدد من الجامعات العراقية لتسهيل مهمته

• توزيع استبيان دراسته على موظفي رئاسات الجامعات التالية (جامعة بابل و جامعة الكوفة و جامعة كربلاء و جامعة المثنى و جامعة القادسية) و كما ورد في طلب الطالب.

• الحصول على عدد الموظفين العاملين بتلك الرئاسة لانهم عينة بحثه.

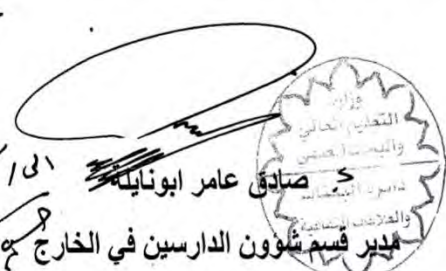
• الحصول على مخطط التنظيمي لهذه الجامعات

للتفضل بالاطلاع و اعلامنا بما جاء بطلب الموما اليه ... مع التقدير

المرفقات:

كتاب الدائرة الثقافية في ماليزيا

المعان بالعلامات علم
صب العنبرية



السيد محمد عبد الامير

الى
السيد محمد عبد الامير
السيد محمد عبد الامير
السيد محمد عبد الامير

٢٠١٤/٦/٢

نسخة منه الى //
• مكتب السيد المدير العام/ للتفضل بالاطلاع... مع التقدير
• قسم شؤون الدارسين في الخارج / الوطن العربي / نفقة/ ماليزيا

محمد باقر //٦/٤

Website: www.Scrdiraq.com

Email: scrd@mohesr.gov.iq

موقع دائرة البعثات والعلاقات الثقافية:

الدائرة:

بسم الله الرحمن الرحيم

١٧٦٩٢

العدد: ص ب / ١٤

التاريخ: / / ٢٠١٤

٦ ٥



وزارة التعليم العالي
والبحوث العلمي

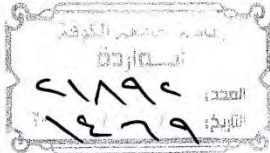
Ministry of Higher Education & Scientific Research

جمهورية العراق

وزارة التعليم العالي والبحث العلمي

دائرة البعثات والعلاقات الثقافية

قسم شؤون الدارسين في الخارج/الوطن واسيا



الى / الجامعات
جامعة بابل
جامعة الكوفة
جامعة كربلاء
جامعة المثنى
جامعة القادسية
م / احالة

تحية طيبة..

نحيل اليكم كتاب دائرتنا الثقافية في ماليزيا المرقم ١٦٠٠ في ٢٠١٤/٦/٢ بخصوص طلب طالب النفقة الخاصة

في ماليزيا السيد محمد عبد الامير محمد و الذي يروم مخاطبة عدد من الجامعات العراقية لتسهيل مهمته

• توزيع استبيان دراسته على موظفي رئاسات الجامعات التالية (جامعة بابل و جامعة الكوفة و جامعة كربلاء و جامعة المثنى و جامعة القادسية) و كما ورد في طلب الطالب.

• الحصول على عدد الموظفين العاملين بتلك الرئاسات لانهم عينة بحثه.

• الحصول على مخطط التنظيمي لهذه الجامعات

للتفضل بالاطلاع و اعلامنا بما جاء بطلب الموما اليه ... مع التقدير

المرفقات:

كتاب الدائرة الثقافية في ماليزيا

المصانف بالعلامات علم
صب الطالبة

صديق عامر ابونايك
مدير قسم شؤون الدارسين في الخارج

٢٠١٤/٦/٢
السيد المساهم الاداري المحترم
#A.H.
٦١٩

السيد محمد
١٢/١٩

نسخة منه الى //

• مكتب السيد المدير العام/ للتفضل بالاطلاع... مع التقدير

• قسم شؤون الدارسين في الخارج / الوطن العربي / نفقة/ ماليزيا

محمد باقر //٦/٤

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الدائرة:

بسم الله الرحمن الرحيم

جمهورية العراق

وزارة التعليم العالي والبحث العلمي

دائرة البعثات والعلاقات الثقافية

قسم شؤون الدارسين في الخارج/الوطن واسيا



١٧٦٩٢

العدد: ص ب / ١٤ /

التاريخ: ٢٠١٤ / /

٦ ٥

الى / الجامعات

جامعة بابل

جامعة الكوفة

جامعة كربلاء

جامعة المثنى

جامعة القادسية

م / احالة

تحية طيبة..

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• الحصول على عدد الموظفين العاملين بتلك الرئاسة لانهم عينة بحثه.

• الحصول على مخطط التنظيمي لهذة الجامعات

للتفضل بالاطلاع و اعلامنا بما جاء بطلب الموما اليه ... مع التقدير

المرفات:

كتاب الدائرة الثقافية في ماليزيا

صادق عامر ابونايلة
مدير قسم شؤون الدارسين في الخارج

السيد محمد
١٦
٦

٢٠١٤/٦/٢

السيدات / لانا دما لانا
سيدات / لانا دما لانا
٦/٣

نسخة منه الى //

• مكتب السيد المدير العام/ للتفضل بالاطلاع... مع التقدير
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Website: www.Serdiraq.com

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E-mail: scrd@mohesr.gov.iq

الدائرة:

APPENDIX H

SAMPLE SIZE

جدول رقم (7)												
الم												
يالفني لوجود 2013/2012												
ا جملي	ارديين					فلن يين						
	م جموع	بيلوم عالي	بتوسطة فلول	اعدايه	بيلوم	بيلوالويس	بيلوم عالي	بتوسطة فلول	اعدايه	بيلوم	بيلوالويس	بيلوم عالي
26		1	1		3			2	1	16		ال مكتبة
71		2	6	4	37			1	2	7		لهاي رة واقصاد
76	4	-	5	3	25	3	-	3	6	11	1	ال تري لعلوم ان س ليه
42			2	2	8			1	5	18		ال تري لاري لخرية
22	4		1	2	11			1	1	2	4	طب اسنان
13			2		5			1		4		ال تري لخرية
74		2	3	4	18			2	2	15		لقانون
78	2	1	4	2	7	0	0	1	4	35	2	الزراعة
32			4	2	9			1	1	11		للني احه لخرية
71	4	6	0	3	7	0	0	0	2	46	4	ال طبي ليه
573	3	171	29	29	130	1		9	31	137	2	ي اسرة ال جامعة
29	—	6	1	—	11	—	—	1	3	7	—	كاملية علوم ال طبيه التطبييه
94	3	3	4	2	16			1	7	51	3	ال طب
37	7	2	1	1	7		2	2	2	11	7	ال طب البي طري
37	4	2	4	17		10			3	7		كافي ال علوم ا يه
124	8	7	3	17		77		3	2	69	3	ل علوم
98	1	6	7	16	0	57	0	3	10	42	2	ال هندسة



الكلية	دكتوراه	ماجستير	بورك	بورك عراقي	دبلوم عالي	بكلوريوس	دبلوم	اعدادية	متوسطة
رئاسة الجامعة	11	48	0	0	11	417	190	133	37
الطب	50	51	17	89	11	70	32	23	2
الهندسة	80	153	0	0	5	109	94	25	5
طب الاسنان	12	48	1	0	0	48	23	21	5
العلوم	85	99	0	0	3	91	38	18	1
العلوم للنبات	45	78	0	0	1	65	14	14	2
القانون	27	27	0	0	1	28	23	8	2
الاداب	27	28	0	0	1	30	17	10	1
الادارة والاقتصاد	18	27	0	0	0	39	18	7	2
التربية للعلوم الانسانية	80	71	0	0	0	40	12	6	1
التربية الاساسية	39	72	0	0	2	48	18	19	7
الفنون الجميلة	115	71	0	0	3	54	24	18	3
التربية الرياضية	51	13	0	0	0	21	22	6	6
التمريض	17	8	0	0	0	30	15	8	1
هندسة المواد	25	44	0	0	4	58	23	9	1
الدراسات القرآنية	28	15	0	0	0	16	9	6	0
الصيدلة	14	35	0	1	2	26	6	8	2
التربية للعلوم الصرفة	19	49	0	0	0	34	11	6	1
تكنولوجيا المعلومات	14	40	0	0	0	32	14	4	2

قائمة التقارير Export2Excel

جدول رقم (1) اعداد التدريسيين في جامعة الكوفة موزعين بحسب الجامعة والكلية والقسم واللقب العلمي والشهادة والجنس للعام الدراسي ٢٠١٣/٢٠١٢ دراسة صحاحية

الكلية	ديوان الجامعة	القسم	اللقب العلمي	دكتوراه			ماجستير			دبلوم عالي			بكالوريوس			المجموع	
				مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث
			استاذ متمرس														
			استاذ														
			استاذ مساعد	2	1	1											
			مدرس	6		6	4	1	3								
			مدرس مساعد	18		18	23	5	18								
			المجموع	10	1	9	27	6	21								
			استاذ متمرس														
			استاذ														
			استاذ مساعد														
			مدرس														
			مدرس مساعد														
			المجموع														
			استاذ متمرس														
			استاذ														
			استاذ مساعد														
			مدرس														
			مدرس مساعد														
			المجموع														
			استاذ متمرس														
			استاذ	2		2											
			استاذ مساعد	2	1	1											
			مدرس	6		6	4	1	3								
			مدرس مساعد	18		18	23	5	18								
			المجموع	10	1	9	37	6	21								
		مجموع الكلية	المجموع														

اعداد الموظفين جامعة الكوفة على الملاك الدائم للعام الدراسي ٢٠١٣/٢٠١٢

جدول رقم (١)

التحصيل الدراسي	الاداريين			الفنيين			الخدمات			المجموع	
	مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث
امي	0			0			31	8	23	31	8
يقرأ ويكتب	0			0			42	4	38	42	4
ابتدائية	3	1	2	0			91	8	83	94	9
متوسطة	5		5	0			42	7	35	47	7
اعدادية	23	20	3	16	1	15	12	2	10	51	23
دبلوم تقني	32	13	19	72	15	57	2		2	106	28
بكالوريوس	90	30	60	307	97	210	0			397	127
دبلوم عالي	0			4		4	0		4	4	0
ماجستير	0			4		4	0		4	4	0
المجموع	153	64	89	403	113	290	220	29	191	776	206

اعداد الموظفين على الملاك الدائم للعام الدراسي ٢٠١٤/٢٠١٣ رئاسة جامعة القادسية

جدول رقم (١)

التحصيل الدراسي	الإداريين			الفنيين			الخدمات			المجموع	
	ذكور	إناث	مجموع	ذكور	إناث	مجموع	ذكور	إناث	مجموع	إناث	مجموع
امي	1	2	3							5	7
يقرأ ويكتب	14		14	1	1	2	8	13	21	14	23
ابتدائية	16	9	25	7		7	16		16	9	39
متوسطة	9	6	15	1		1	4		4	6	14
اعدادية	12	34	46	11	2	13				36	23
دبلوم تقني	13	33	46	11	12	23	1		1	45	25
بكالوريوس	78	107	185	54	32	86				139	132
دبلوم عالي	1		1	2		2					3
المجموع	144	191	335	87	47	134	35	16	51	254	266



جدول رقم (1) اعداد التدريسيين موزعين بحسب الجامعة والكلية والقسم واللقب العلمي والشهادة والجنس للعام الدراسي ٢٠١٣/٢٠١٤
دراسة صباحية جامعة القادسية

الكلية	القسم	اللقب العلمي	دكتوراه			ماجستير			دبلوم عالي			بكالوريوس			المجموع	
			مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث	ذكور	مجموع	اناث
		استاذ متمرس	1													
		استاذ	3	2	1	1										
		استاذ مساعد														
		مدرس	3		1	1	1									
	رئاسة الجامعة	مدرس مساعد	1			2										
		المجموع	7	2	5	3	3	6								13



جدول رقم (٣)

الموظفين على الملاك الدائم موزعين بحسب العنوان الوظيفي للعام الدراسي ٢٠١٢/٢٠١١

العنوان الوظيفي	متوسطة ودون متوسطة		اعدادية		دبلوم تكلي		بكالوريوس		دبلوم عالي		ماجستير		المجموع	
	ذكور	إناث	ذكور	إناث	ذكور	إناث	ذكور	إناث	ذكور	إناث	ذكور	إناث	ذكور	إناث
طبيب														
طبيب أسنان														
صيدلي														
ممرض (معاون طبي)														
مهندسين (م.مهندسين، رئيس مهندسين، مهندسين أقدم)								19	19					
مهندسين حسابيات								2	1					
مبرمج (م.مبرمج) / محلل أنظمة								4	6					
مهندسين زراعي								2	12					
طبيب بيطري								0	0					
فيزيائي (م.فيزيائي)								0	3					
كيميائي (م.كيميائي)								1	0					
جيوالوجي								0	1					
محلل مختبر (أبيولوجي)								3	1					
مساعد مختبر								0	0					
ملاحظ (م. ملاحظ برئيس ملاحظين، م. مدير)								4	15					
ملاحظ فني (م. ملاحظ فني، رئيس ملاحظين فنيين، م. مدير فني)								1	0					
مدير فني								1	0					
مدرب فني (مدرب ألعاب)								0	3					
مدير (مدير حسابات، مدير تدقيق)								0	0					
خبير								0	0					
محاسب (م. محاسب، أمين صندوق، كاتب حسابات)								1	11					
مدقق (م. مدقق)								0	3					
إحصائي (م. إحصائي، رئيس إحصائيين)								0	0					
باحث (م. باحث، رئيس باحثين)								3	4					
قانوني (م. قانوني، مشاور قانوني)								2	6					
مترجم (م. مترجم، رئيس مترجمين)								0	0					
مشغل حاسبة								0	0					
أمين مخزن								1	2					
أمين مكتبة								0	0					
كاتب طباعة (مسجل بيانات، كاتب)								1	2					
حارس (حرس أمن)								0	0					
سائق (رئيس سائق، السواق كافة)								0	0					
حرفي (رئيس حرفيين)								0	0					
موظف خدمات								0	0					
فني								0	0					
أخرى								9	0					
المجموع	207	30	33	5	53	19	89	54	1				383	108

ملاحظة: المشمولين في الجدول فقط الموظفين دون التدريسيين

ملاحظة: يجب ان يتطابق المجموع في جدول رقم (٣) مع المجموع في جدول رقم (٤)

ملاحظة: يتم الالتزام بالظاوين الوظيفية اعلاه

No	University	Uni Staff	Chancellery	Admin.& Academic	Expected staff	Distribute	Collected
1	Kufa	4242	817	554	3-4-5	150	69
2	Babylon	4604	847	677	3-4-5	150	65
3	Al-Qadysiah	2521	533	357	3-4-5	120	53
4	Karblaa	2377	573	345	3-4-5	120	49
5	Al-Muthana	1238	491	200	3-4-5	120	38
	Total	14952	3261	2133		660	274

APPENDIX I

QUESTIONNAIRE

تبادل لمعلومات لتبني مبادئ العدالة الاجتماعية ووزارة التعليم للإجابة على استبيان

هذه الدراسة تهدف إلى تقييم مدى وعي طلاب الجامعات الحكومية في العراق بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة. تهدف الدراسة إلى التعرف على مدى وعي الطلاب في العراق بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة. تهدف الدراسة إلى التعرف على مدى وعي الطلاب في العراق بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة.

عزيزي الكريم:

الغرض من هذه الدراسة هو التعرف على مدى وعي طلاب الجامعات الحكومية في العراق بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة. تهدف الدراسة إلى التعرف على مدى وعي الطلاب في العراق بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة.

هذه الدراسة تهدف إلى تقييم مدى وعي طلاب الجامعات الحكومية في العراق بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة. تهدف الدراسة إلى التعرف على مدى وعي الطلاب في العراق بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة.

شكراً لك على وقتك وانضمامك، فكل ما نرجو هو مشاركتنا هذه الدراسة لنعلم مدى وعيكم بالتبديل بين المزايا والمساوئ، وتغيير مبادئ العدالة الاجتماعية في ظل ظروف اقتصادية متغيرة.

مع خالص الاحترام والتقدير،

محمد عبد الحليم محمد علي
المهنة: أستاذة في تخصصات الاقتصاد والعلوم السياسية
موبايل: 00964-7801280088 (العراق)
موبايل: 006-0149035750 (البحرين)
البريد الإلكتروني: mhmdaldabag@yahoo.com

لجزء الثاني: حل قتبائل لم غلومات للتربوية

1. هل من متبغ علمي يقبائل لم غلومات التربوية عن طوي قس استخدام اذرة الةتربوية (خط ارضي ومباي ليامي ل, مقنع الةتربوي لعميرة وب ولخ (مع موهلي وز الةتربوي ملاءلي؟
 نعم ك

2. ملرقة تقو ومبطل ي قلابائل لم غلومات التربوية ووزار للتربي ملاءلي نطر يقيت خدام اذرة الةتربوية؟ الك يقنعن خدام ج ازا خري ربيتي تقوي لصف الهارغ.

ا اذرة الةتربوية	و مرة	مرة واح ذقيل سنة	مر قبي لئن هر	عددمن لتفلي لئن هر	عددمن لتفلي ا وع	عددمن لتفلي لني وم
ال ميظائل خط ارضي						
البي د ا لةتربوي) اي يزل						
مواق الةتربوي						
كاهي رة لني ب) م ا لةتربي و						
دخول الةتربي اعد قيني ات الوزاره						

3. تقوي ا ما هي لقب قلام قبي قلابائل لم غلومات التربوية أ للقب ين ج ابعتك و لوزارة لني غيم لعلني؟

[] [81-100%] [] [61-80%] [] [41-60%] [] [21-40%] [] [1-20%] [] 0%

4. من غتي بدائل قلاب الةتربوي لم غلومات ين ج ابعتك و لوزارة لني غيم لعلني؟

[] [0% اقل من سنة] [] [1-3 سنون] [] [4-6 سنون] [] [7-9 سنون] [] [افر من 10 سنون]

5. صفناواع علم غلومات التربوي لعلني ملاءلي. ملاءليت خد من وع آخر ملاءلي ربيتي تقوي لصف الهارغ.

نوع الةتربوي	النسبة لوي قلابائل لعلني لعلني من ولي وزارة لني غيم لعلني					
	0%	%20-1	%40-21	%60-41	%80-61	%100-81
م غلومات لطلب						
م غلومات لتربيين						
م غلومات لتربيين						
م غلومات لتربيين						
م غلومات لتربيين						
م غلومات لتربيين						
م غلومات لتربيين						
م غلومات لتربيين						
م غلومات لتربيين						

6. ان علمي يقبائل لم غلومات التربوية يدن ج ابعتك ووز الةتربوي ملاءلي نطر يقيت خدام اذرة الةتربوية (خط ارضي ومباي ليامي ل, مقنع الةتربوي لعميرة وب ولخ (مع موهلي وز الةتربوي ملاءلي؟
 نعم ك

7. ان علمي يقبائل لم غلومات التربوية يدن ج ابعتك ووز الةتربوي ملاءلي نطر يقيت خدام اذرة الةتربوية (خط ارضي ومباي ليامي ل, مقنع الةتربوي لعميرة وب ولخ (مع موهلي وز الةتربوي ملاءلي؟
 نعم ك

8. ان قسيري لني لنيان ات, لمل غلومات, لطيقات, لقناين الةتربوي ملاءلي نطر يقيت خدام اذرة الةتربوية (خط ارضي ومباي ليامي ل, مقنع الةتربوي لعميرة وب ولخ (مع موهلي وز الةتربوي ملاءلي؟

نعم ك

9. ان دعهم لعلني قناري ج ابعتك وفسيس اعددم لعلني ن ج ابعتك اذرة الةتربوية لعميرة وب ولخ (مع موهلي وز الةتربوي ملاءلي؟

نعم ك

11. فاي اللةتربوي روز الةتربوي ملاءلي نطر يقيت خدام اذرة الةتربوية (خط ارضي ومباي ليامي ل, مقنع الةتربوي لعميرة وب ولخ (مع موهلي وز الةتربوي ملاءلي؟

نعم ك

لجزء الثالث: خصائص تبادل المعلومات للتقريبية

انطق وبشدة	انطق	محايد	انطق	انطق وبشدة
				ف1: يتبادل المتروني المعلومات التي لها من تبادل لوقى للخدمات
				ف2: يتبادل المتروني المعلومات في المعلومات بحيث قل قراءة بل طرق لوقية
				ف3: يتبادل المتروني المعلومات في حين من الخدمات لاجعية
				ف4: يتبادل المتروني المعلومات في حال غمزة لرد او اجابة لمرع ويسهل
				ف5: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ف6: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ف7: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ف8: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ف9: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				م1: من لك ما خطر من هة وصح فليقات لتبادل المتروني
				م2: من لشق فيهم ونسق اذات عرجي للخدمات لتبادل المتروني
				م3: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				م4: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				م5: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ك1: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ك2: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ك3: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ك4: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار

لجزء الرابع: لخصائص اداية

انطق وبشدة	انطق	محايد	انطق	انطق وبشدة
				ب1: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ب2: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ب3: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ب4: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ج1: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ج2: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ج3: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ج4: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت1: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت2: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت3: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت4: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت5: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت6: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت7: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت8: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت9: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت10: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت11: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت12: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت13: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت14: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت15: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت16: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت17: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت18: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت19: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار
				ت20: يتبادل المتروني المعلومات في نفس اعد في نفس اقرار

This study focuses on increase electronic information sharing between public universities Ministry of Higher Education and Scientific Research in Iraq. Electronic information sharing now plays an important role in modern institutions by providing more information which can be a useful resource for the decision makers. The increment of information can help the employee, staff and decision makers to make better decision which can support universities decentralization principle. With these concerns, this study intends to bases on electronic information sharing in Iraqi higher education sector by studying the factors influences that increase of electronic information sharing among universities and Ministry. Moreover, this study usesconcept of a common storage (data warehouse) as factor to increase the electronic information sharing indirectly because it can store huge amount of information of the Ministry and universities in one repository which make information available and accessible to Ministry and universities members.

Dear Administrative staff:

The purpose of this survey is to examine your perceptions about using ICT to share information electronically. This survey is designed to obtain information that will assist to understanding how an employee like you can share the information by using ICT. Hence, your honest opinion and success of this survey depends on your participation and candid responses. We would therefore greatly appreciate your assistance in answering the questionnaire. Please be assured that your responses will be kept strictly confidential. Individual participants will not be identified in the analysis as only aggregated results will be analyzed and presented.

The present survey is part of my study for PhD degree that tries to determine the factors that increases electronic information sharing between public universities and Ministry of Higher Education to support universities decentralization principle in Iraqi higher education sector. Please read each questions carefully and answer it to the best of your ability. There are no correct or incorrect responses; we are merely interested in your personal point of view. This survey is designed for all staff who shares information electronically with the Ministry of Higher Educationand Scientific Research.

Thank you for your time and consideration. It is only with your generous help this study can be successful.

Sincerely Yours,

Mohammed Abdulameer Mohammed Albubaqer.

PhD Candidate, University Utara Malaysia.

Mobile#1:- +964-7801-280088 (Iraq).

Mobile#2:- +60-14- 90 35 750 (Malaysia).

Email: mhmdaldbag@yahoo.com

Do not worry about projecting a good image and the numbers alongside the statements used in this survey stand for the following responses:

- 6 = Strongly Disagree,
- 7 = Disagree,
- 8 = Neither Disagree nor Agree,
- 9 = Agree, and
- 10= Strongly Agree

In making your ratings, please remember the following points

1. This survey contains five parts (1-6), and each section contains number of statements.
2. Please answer each of the statement related to the questions by ticking [√] alongside the number that best describes your answer.
3. Some of the questions may appear to be similar, but they do address somewhat different issues please read each question carefully.
4. Be sure to answer all items – do not omit any.
5. Never tick more than one number on a single scale.

Part 1: Demographic Characteristics

8. What is your gender?

Male [] Female []

9. Identify the category that best describes your age group.

Under 30 [] 30-40 [] 41-50 [] 51 or older []

10. Identify your highest education qualification.

Bachelor [] Master [] PhD [] Other -----

11. Identify the years of your experience in the higher education sector.

1-5 [] 5-10 [] 11-15 [] over 16 []

12. What is your work type?

Administrative [] Academic and Administrative []

13. What is your position?

Top Manager [] Manager [] Responsible [] Employee []

14. What is name of your office, department or center? If it is not found in the list, please write it down in the last row.

Department Name	Select one only (√)
Presidency of university	
Research and Development	
Division of Student Affairs	
Studies, planning and follow-up	
Continuing Education	
Ratifications and documents	
Missions and Cultural	
Public Relations and Media	
Physical Education	
Relations Affairs	
Engineering Affairs	
General Secretariat of the library	
Finance Affairs	
Audit	
Dormitories	
Quality	
Legal Affairs	

Part 2: States of Electronic Information Sharing Practices

11. Do you use any of these devices to share the information electronically with other staff in Ministry of Higher Education?

Yes [] No []

12. How frequently do you use these devices to share the information? If you use another visual device please name it in the empty row.

Electronic device	Never	one time in a year	Once a month	few times a month	few times a week	Few times a day
Phone line/ Mobile						
Email						
Websites						
Webcam						
Shared Databases						

13. Approximately what is the percent of all information shared electronically between your university and Ministry of Higher Education?

0% [] 1-20% [] 21-40% [] 41-60% [] 61-80% [] 81-100% []

14. Approximately how long has your university been sharing information electronically with Ministry of Higher Education?

0% [] < 1 Year [] 1-3 Years [] 4-6 Years [] 7-9 Years [] 10+ Years []

15. Describe the types of information (e.g. student information, staff information, Policies and Rules, etc.) that your university shares with Ministry of Higher Education. If you use another type of information please name it in the empty row.

Types of information	Percentage of Sharing Electronically					
	0%	1-20%	21-40%	41-60%	61-80%	81-100%
Student information						
Administrative staff information						
Academic staff information						
Guidelines and suggestions						
Dispatches						
Scholarships and studies						
Policies and rules						
Guidelines						

16. Electronic information sharing between your university and Ministry of Higher Education help to exchange the information, requests, rules and guidelines easily and fast.

Yes [] No []

17. Electronic information sharing between your university and Ministry of Higher Education provide information, requests, rules and guidelines within the right time.

Yes [] No []

18. The increment of the information, requests, rules and guidelines within the right time can support decision makers when they make the university's decisions.

Yes [] No []

19. Support decision makers in your university will help to make the principle of university decentralization successes?

Yes [] No []

20. If Ministry of Higher Education develops a new technology to increase the electronic information sharing between your university and them, will you use it?

Yes [] No []

Part 3: Electronic Information Sharing Characteristics

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Ben1: Electronic information sharing less cost than paper sharing.					
Ben2: Electronic information sharing provides information quickly.					
Ben3: Electronic information sharing improves University services.					
Ben4: Electronic information sharing makes the answering and responding faster and easier.					
Ben5: Electronic information sharing improves decision making.					
Ben6: Electronic information sharing improves connection and interaction with MOHESR					
Ben7: Electronic information sharing improves the trust between staffs in the University and MOHESR.					
Ben8: Electronic information sharing reduces the bureaucracy.					
Ben9: Electronic information sharing increases paperwork.					
Risk1: There are risks of accuracy/validity of shared information electronically.					
Risk2: There are risks of external evaluation/ criticism of shared information electronically.					
Risk3: Electronic information sharing prevents from individual controls over University policy.					
Risk4: Electronic information sharing threatens nUniversity policy of making power.					
Risk5: There are no challenges of losing information while sharing.					
Cost1: Information systems set-up are costly.					
Cost2: Staff training is costly					
Cost3: Software and hardware maintenance are costly.					
Cost4: Infrastructure set-up is cheap.					

Technological Characteristics :Part 4

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
ITcap1: Our University needs information systems applications and good technical support.					
ITcap 2: Our University needs good telecommunications infrastructure.					
ITcap3: Our administrators staffs need a good computer knoweldge.					
ITcap4: Electronic information sharing does not need hardware, software and IT skills.					
IQ1: Our current information has the quality to be shared with the Ministry of Higher Education.					
IQ2: The quality of information increases the trust between our staff and the Ministry of Higher Education's staff.					
IQ3: Information quality enhances the relationship among our staff and the Ministry's staff.					
IQ4: Information quality reduces the quality of decision making.					
Compat1: Employee experiences in our university are different than in MOHESR.					
Compat2: Telecommunication infrastructure and database in our University are different than in MOHESR.					
Compat3: Electronic information sharing with the Ministry of Higher Education is contrary with our University's needs.					
Complx1: Information technologies required for electronic information sharing is easy to understand and use.					
Complx2: Electronic information sharing is a complex process.					
DW1: We need to share information by sharing our databases with MOHESR.					
DW2: Saving our information and the MOHESR's in one repository will support information sharing.					
DW3: We need to store our University information with MOHESR's in one data repository to make them accessible.					
DW4: Accessibility to access database opposite the information sharing.					

Organizational Characteristics :Part 5

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
TMS1: Top management motivates the University staff by incentives or rewards and punishments.					
TMS 2: Our top manager willing to share the University's information electronically with the Ministry of Higher Education.					
TMS3: Our top manger considers sharing information electronically with the Ministry as important to our University.					
TMS4: The University's top manager has no role to support the electronic information sharing with the Ministry.					
CC1: Our University and the Ministry of Higher Education have a good collaboration.					
CC2: Our staff have a good collaboration concept.					
CC3: Good collaboration between University and the Ministry of Higher Education increases electronic information sharing.					
Size1: High number of information systems increases electronic information sharing with the Ministry of Higher Education.					
Size2: High number of employees improve electronic information sharing with the Ministry of Higher Education.					
Size3: Large Size of our University reduces electronic information sharing with the Ministry of Higher Education.					

Environmental Characteristics :Part 6

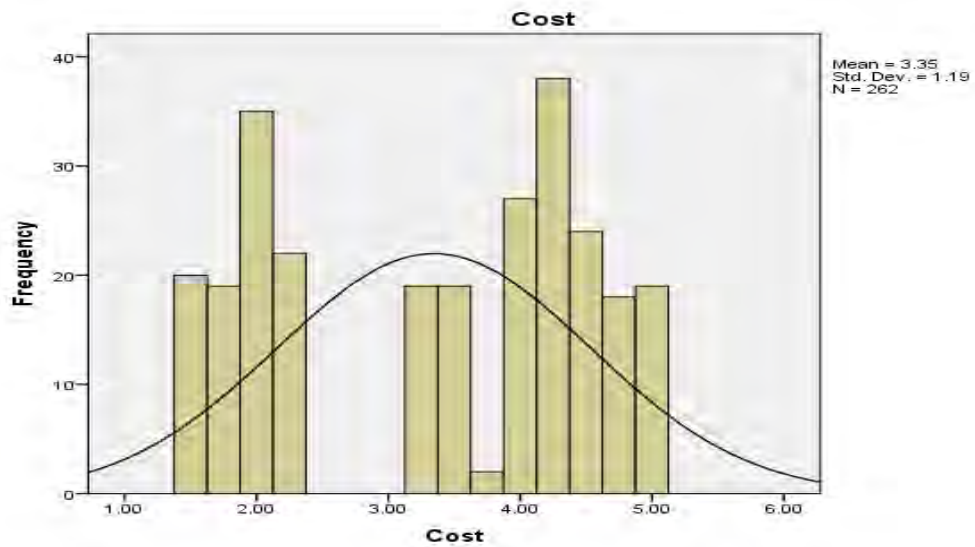
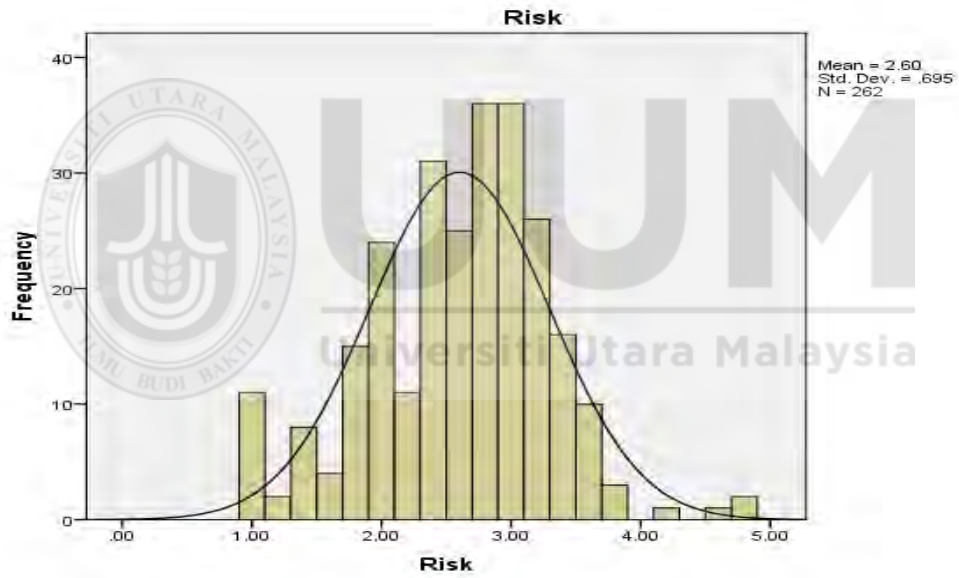
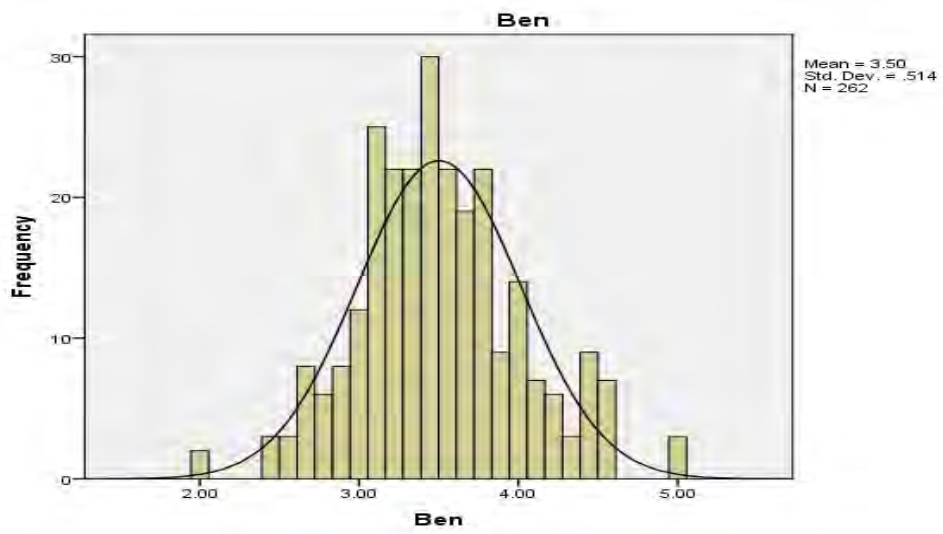
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Policy1: Our University needs the legislation and policies to organize electronic information sharing with MOHESR.					
Policy2: Legislation and policies build good relationships and trust among our staff and the Ministry's staff.					
Policy3: Legislation and Policies increase the risk of sharing electronic information between our University and the Ministry.					
Trust1: Our University and the Ministry of Higher Education have a high level of mutual trust.					
Trust2: Our University should protect the staff when they shared information electronically to increase their trust in sharing.					
Trust3: Trust in electronic information sharing increases the participation and collaboration.					
Trust4: The trust between University and the Ministry of Higher Education staffs give negative impression.					
Upper1: The Ministry of Higher Education recommends that our University shares information electronically.					
Upper2: The Ministry of Higher Education requests that our University shares information electronically.					
Upper3: The Ministry of Higher Education provides information regarding the advantages and disadvantages of sharing information.					
Upper4: The Ministry of Higher Education does not influence our decision to participate/not participate in electronic information sharing with them.					
Mass1: Number of universities that participant in electronic information sharing increase the sharing with the Ministry.					
Mass2: Most of our shared information with the Ministry of Higher Education is shared/will soon be shared electronically.					
Mass3: The use of electronic information sharing systems by Universities is inevitable and essential.					
Mass4: Electronic information sharing between other Universities and MOHESR fail to encourage us to participate in electronic information sharing with the Ministry.					
Network1: Our University and the Ministry have high concepts of commitment and loyalty.					
Network2: Social network improves collaborations between our University and the Ministry of Higher Education.					
Network3: Our University and the Ministry of Higher Education have a weak relationship.					

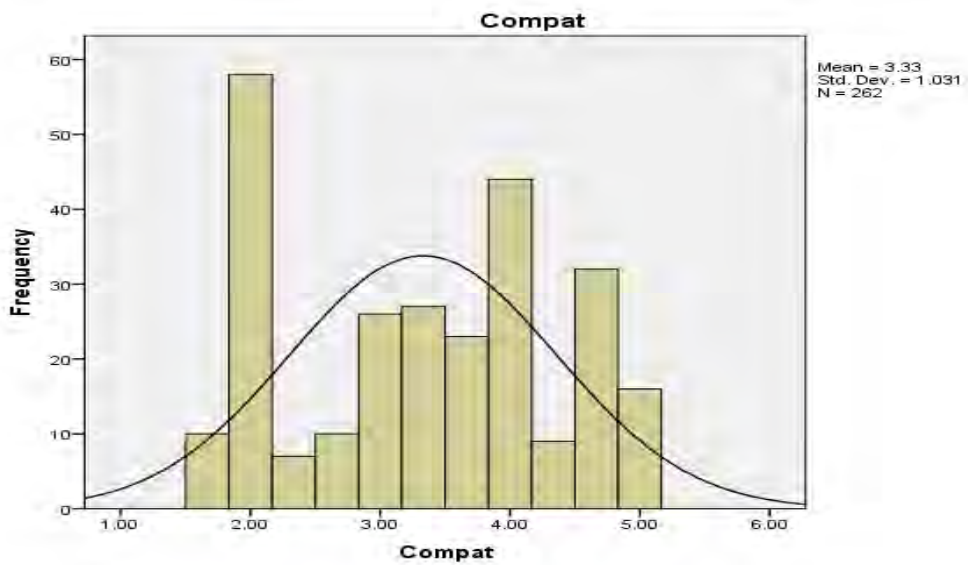
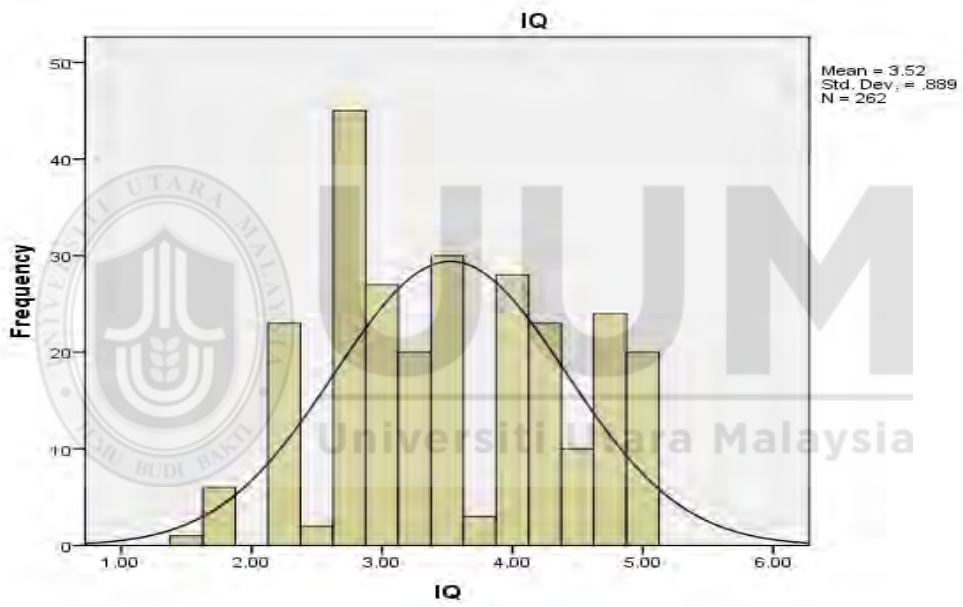
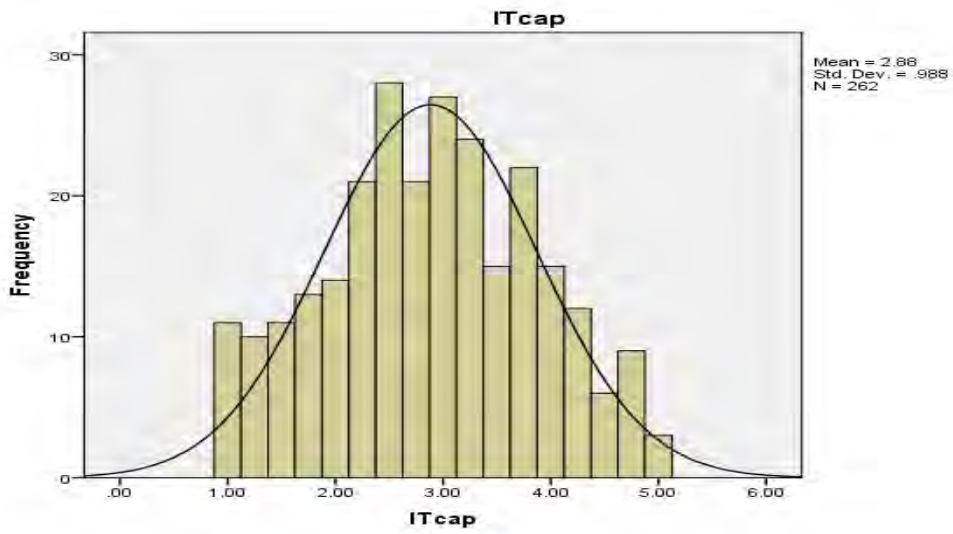
Thank you for your cooperation in completing this survey. If you feel that there are any points of particular interest to your University concerning electronic information sharing with MOHESR that this survey has failed to address, please feel free to elaborate it below.

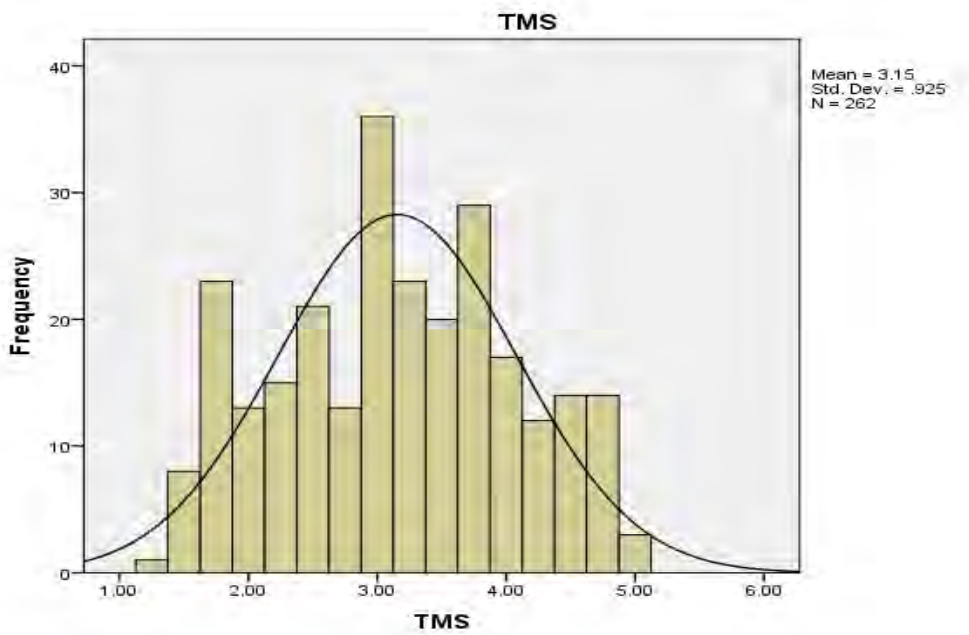
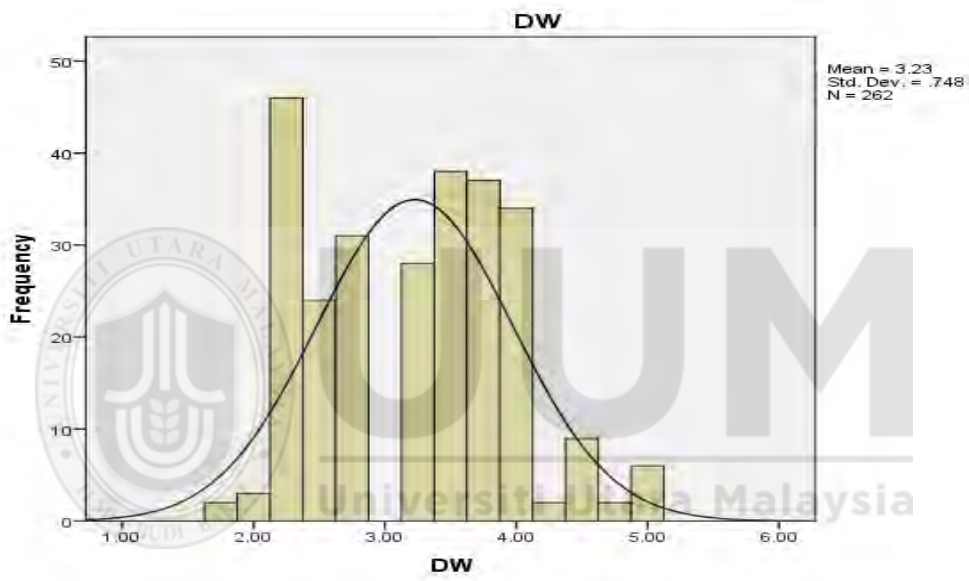
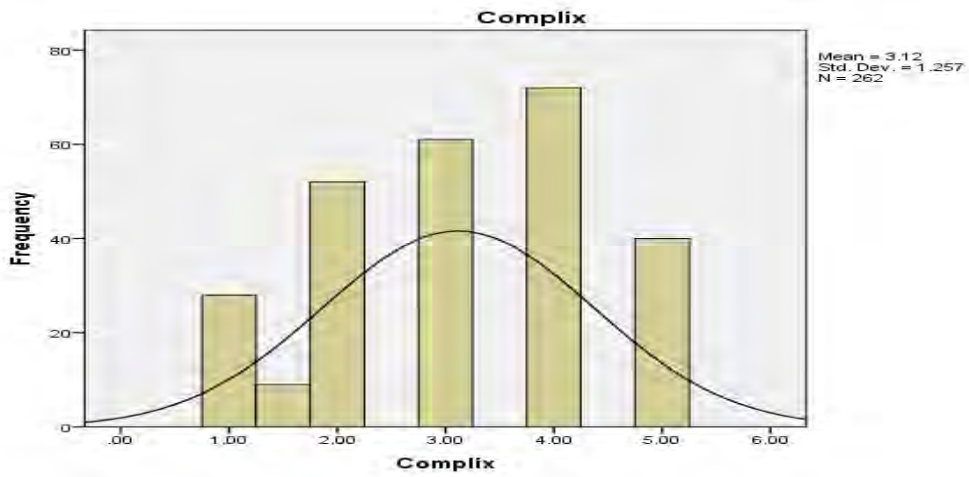
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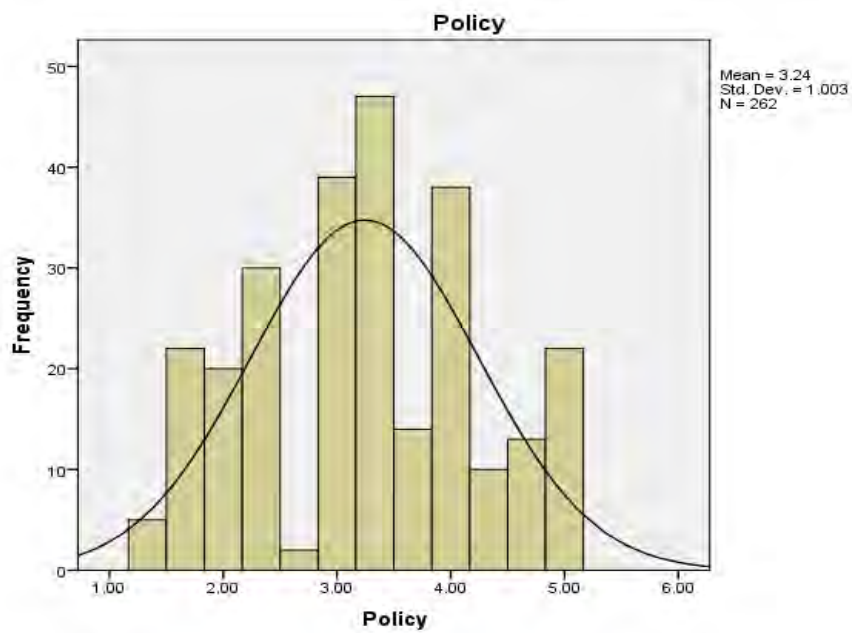
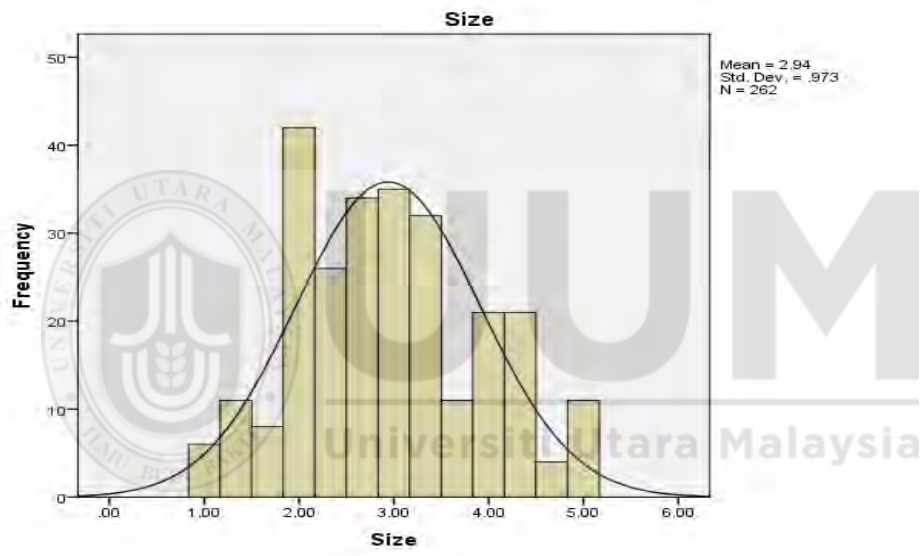
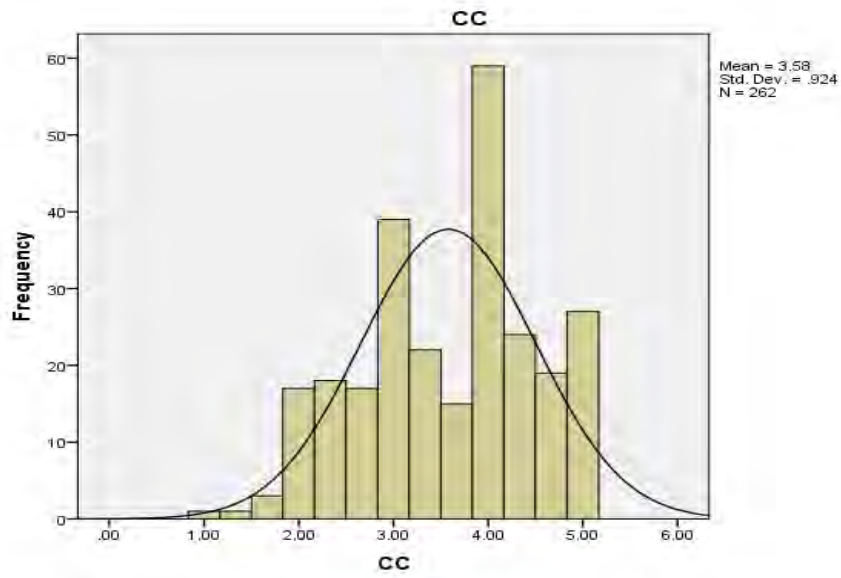
APPENDIX J

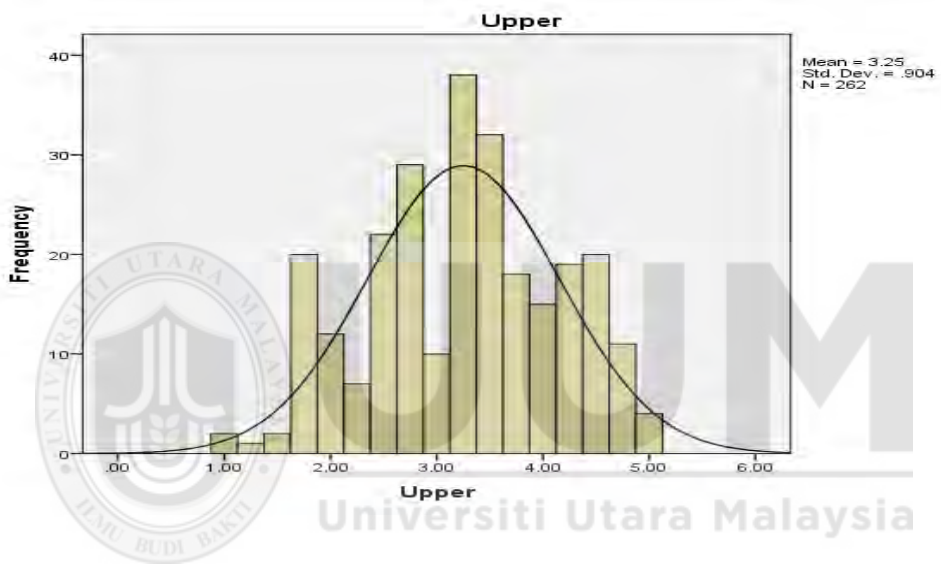
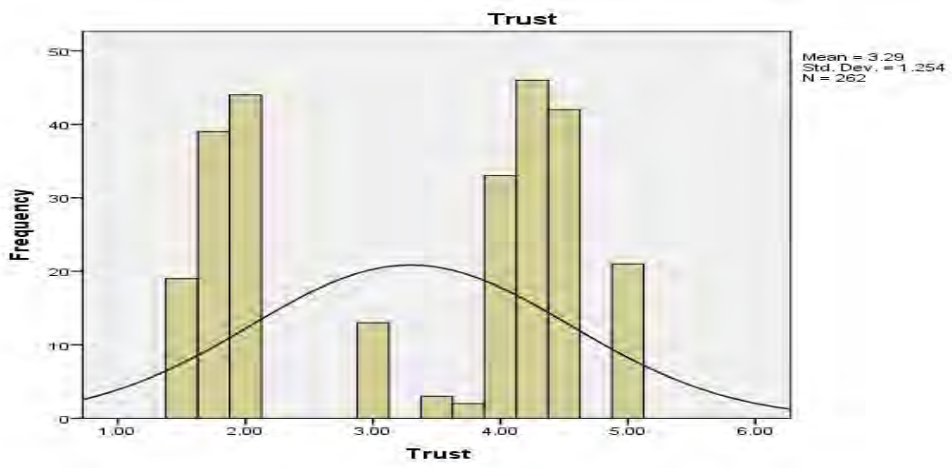
NORMALITY

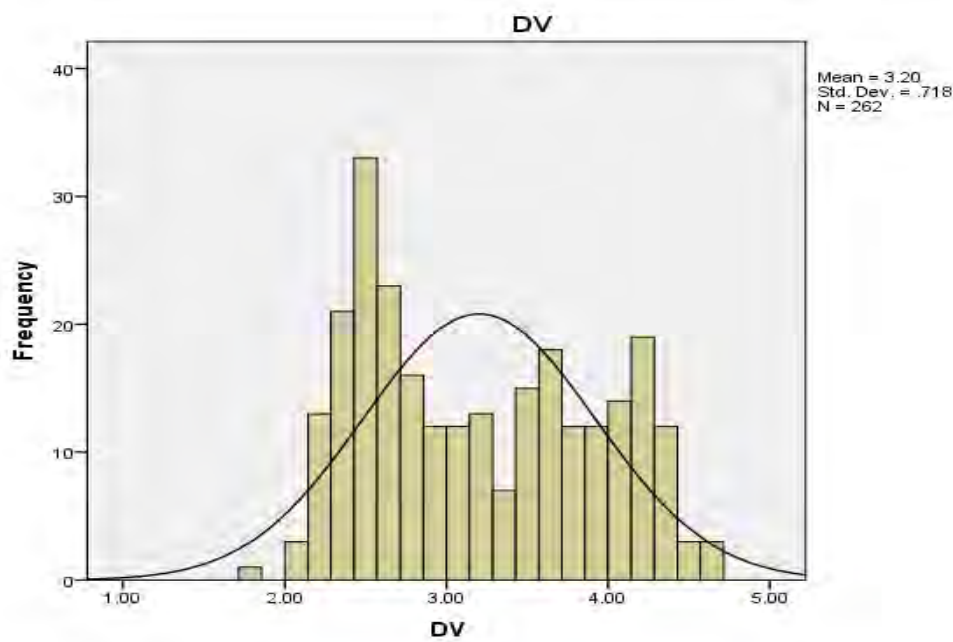
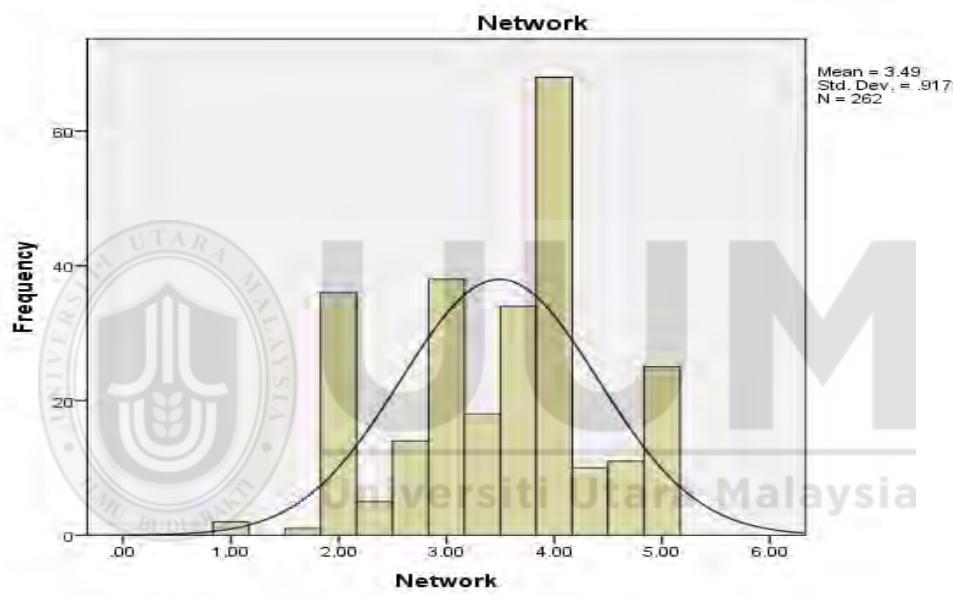
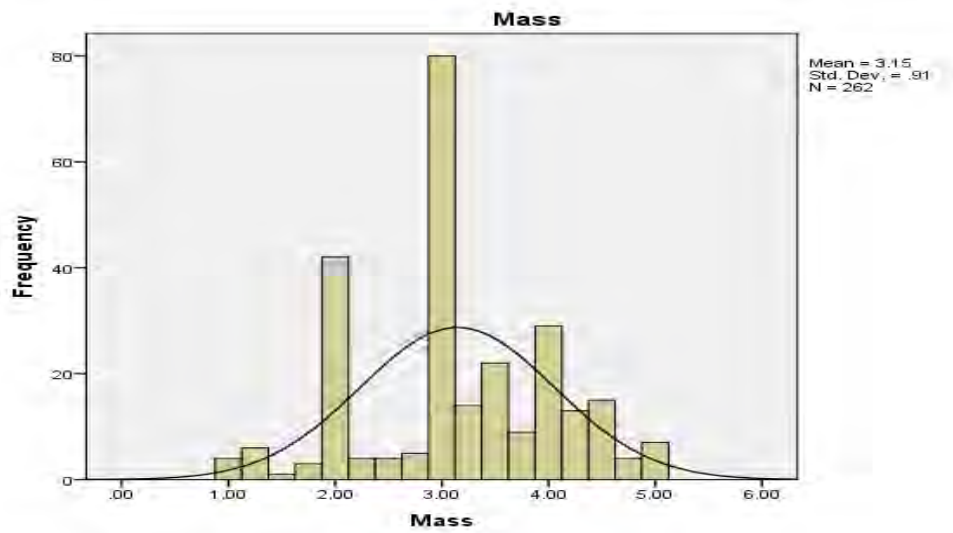












APPENDIX K

OUTLIERS RESULT

Descriptives

		Statistic	Std. Error
	Mean	2.6023	.04296
95% Confidence Interval for	Lower Bound	2.5177	
	Upper Bound	2.6869	
	5% Trimmed Mean	2.6145	
	Median	2.7000	
	Variance	.484	
Risk	Std. Deviation	.69536	
	Minimum	1.00	
	Maximum	4.80	
	Range	3.80	
	Interquartile Range	.80	
	Skewness	-.208	.150
	Kurtosis	.430	.300



UUM

Universiti Utara Malaysia

APPENDIX L

PROFILE INFORMATION

Age

	Frequency	Percent	Valid Percent	Cumulative Percent
Less than 30	55	21.0	21.0	21.0
From 30 to 40	105	40.1	40.1	61.1
Valid From 41 to 50	76	29.0	29.0	90.1
More than 50	26	9.9	9.9	100.0
Total	262	100.0	100.0	

Level of Education

	Frequency	Percent	Valid Percent	Cumulative Percent
Bachelor	152	58.0	58.0	58.0
Master	60	22.9	22.9	80.9
Valid PhD	34	13.0	13.0	93.9
Other	16	6.1	6.1	100.0
Total	262	100.0	100.0	

Years of Expreince

	Frequency	Percent	Valid Percent	Cumulative Percent
From 1 to 5	76	29.0	29.0	29.0
From 6 to 10	82	31.3	31.3	60.3
Valid From 11 to 15	53	20.2	20.2	80.5
More than 15	51	19.5	19.5	100.0
Total	262	100.0	100.0	

Type of Position

	Frequency	Percent	Valid Percent	Cumulative Percent
Administrator	155	59.2	59.2	59.2
Valid Administrator and Academic	107	40.8	40.8	100.0
Total	262	100.0	100.0	

Level of Position

	Frequency	Percent	Valid Percent	Cumulative Percent
Manager	78	29.8	29.8	29.8
Valid Responsible	55	21.0	21.0	50.8
Employe	129	49.2	49.2	100.0
Total	262	100.0	100.0	



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APPENDIX M

DEVICES USAGE, PERCENTAGE, YEAR AND TYPES OF INFORMATION

Use Line and Mobile

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Never	11	4.2	4.2	4.2
Less than one time in a month	39	14.9	14.9	19.1
One time in a month	52	19.8	19.8	38.9
Few times in a month	122	46.6	46.6	85.5
Few times in a week	38	14.5	14.5	100.0
Total	262	100.0	100.0	

Use E-mail

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Never	9	3.4	3.4	3.4
Less than one time in a month	37	14.1	14.1	17.6
One time in a month	76	29.0	29.0	46.6
Few times in a month	105	40.1	40.1	86.6
Few times in a week	35	13.4	13.4	100.0
Total	262	100.0	100.0	

Use website

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Never	7	2.7	2.7	2.7
Less than one time in a month	31	11.8	11.8	14.5
One time in a month	87	33.2	33.2	47.7
Few times in a month	98	37.4	37.4	85.1
Few times in a week	39	14.9	14.9	100.0
Total	262	100.0	100.0	

Use webcam

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Never	24	9.2	9.2	9.2
Less than one time in a month	28	10.7	10.7	19.8
One time in a month	95	36.3	36.3	56.1
Few times in a month	65	24.8	24.8	80.9
Few times in a week	50	19.1	19.1	100.0
Total	262	100.0	100.0	

Access the database

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Never	262	100.0	100.0	100.0



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PERCENTAGE OF SHARING INFORMATION

Percentage of Sharing information

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Zero	37	14.1	14.1	14.1
From 1 to 20	59	22.5	22.5	36.6
From 21 to 40	58	22.1	22.1	58.8
From 41 to 60	67	25.6	25.6	84.4
From 61 to 80	41	15.6	15.6	100.0
Total	262	100.0	100.0	

YEAR OF SHARING INFORMATION

Years of Sharing information

	Frequency	Percent	Valid Percent	Cumulative Percent
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Zero	14	5.3	5.3	5.3
From 1 to 20	59	22.5	22.5	27.9
From 21 to 40	105	40.1	40.1	67.9
From 41 to 60	44	16.8	16.8	84.7
From 61 to 80	40	15.3	15.3	100.0
Total	262	100.0	100.0	

TYPES OF INFORMATION

	Student information	Administratives taff information	Academic staff information	suggestions	Dispatches	Scholarship and studies	Policies and rules	Guidelines
Zero	14.1%	5.3%	1.9%	19.1%	16.4%	22.1%	3.1%	0.4%
From 1 to 20	22.5%	22.5%	9.9%	15.6%	22.1%	1.5%	24.4%	19.1%
From 21 to 40	22.1%	40.1%	41.6%	10.3%	6.1%	21.4%	16.4%	57.6%
From 41 to 60	25.6%	16.8%	26.7%	24.0%	27.5%	41.6%	46.6%	6.1%
From 61 to 80	15.6%	15.3%	19.8%	30.9%	27.9%	13.4%	9.5%	16.8%
Total	100%	100%	100%	100%	100%	100%	100%	100%

APPENDIX N

REGRESSION

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	3.098	.277		11.203	.000
BenNew	.029	.076	.024	.380	.704

a. Dependent Variable: DV

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	3.501	.171		20.432	.000
Risk	-.115	.064	-.111	-1.809	.072

a. Dependent Variable: DV

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	3.237	.133		24.367	.000
Cost	-.010	.037	-.017	-.279	.781

a. Dependent Variable: DV

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.607	.132		19.795	.000
ITcap	.206	.043	.284	4.775	.000

a. Dependent Variable: DV

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.076	.167		12.411	.000
IQ	.319	.046	.395	6.940	.000

a. Dependent Variable: DV

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.550	.144		17.664	.000
Compat	.196	.041	.281	4.728	.000

a. Dependent Variable: DV

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	3.467	.118		29.477	.000
Complix	-.085	.035	-.149	-2.431	.016

a. Dependent Variable: DV

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.776	.195		14.215	.000
DW	.132	.059	.137	2.237	.026

a. Dependent Variable: DV

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.021	.139		14.575	.000
	TMS	.374	.042	.482	8.874	.000

a. Dependent Variable: DV

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.966	.177		16.716	.000
	CC	.066	.048	.085	1.370	.172

a. Dependent Variable: DV

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	3.190	.142		22.518	.000
	Size	.004	.046	.006	.092	.927

a. Dependent Variable: DV

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.514	.144		17.467	.000
	Policy	.212	.042	.296	5.003	.000

a. Dependent Variable: DV

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.339	.111		21.012	.000
	Trust	.262	.032	.457	8.294	.000

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.585	.161		16.028	.000
	Upper	.190	.048	.239	3.967	.000

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.930	.159		18.403	.000
	Mass	.087	.049	.110	1.780	.076

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.242	.164		13.659	.000
	Network	.275	.045	.351	6.048	.000

APPENDIX O

MULTI REGRESSION

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.811 ^a	.657	.643	.42865

a. Predictors: (Constant), ITcap, DW, IQ, Compat, Upper, Policy, Complix, Network, TMS, Trust

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	88.394	10	8.839	48.109	.000 ^b
	Residual	46.118	251	.184		
	Total	134.511	261			

a. Dependent Variable: DV

b. Predictors: (Constant), ITcap, DW, IQ, Compat, Upper, Policy, Complix, Network, TMS, Trust

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.944	.241		-3.912	.000
	ITcap	.058	.030	.079	1.896	.059
	IQ	.172	.032	.213	5.389	.000
	Compat	.157	.026	.225	6.005	.000
	Complix	-.039	.022	-.068	-1.764	.079
	DW	.063	.036	.066	1.749	.082
	TMS	.236	.031	.304	7.580	.000
	Policy	.153	.027	.213	5.603	.000
	Trust	.183	.024	.319	7.568	.000
	Upper	.058	.031	.073	1.879	.061
	Network	.211	.031	.270	6.856	.000

a. Dependent Variable: DV

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	1.6673	4.6277	3.2019	.58196	262
Residual	-1.26536	1.01201	.00000	.42035	262
Std. Predicted Value	-2.637	2.450	.000	1.000	262
Std. Residual	-2.952	2.361	.000	.981	262

a. Dependent Variable: DV



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