

CURRICULUM VITAE

Prof. Dr. Atef Ali Al-Kharabsheh



1. PERSONAL

Name: Atef Ali Hamed Al-Kharabsheh

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Address: Faculty of Agricultural Technology,

Al-Balqa' Applied University, Al-Salt 19117, Jordan.

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Dr. Atef Al-Kharabsheh was born in 1967 at Al-Balqa' Governorate. He holds B.Sc. in Earth and Environmental Science from Al-Yarmouk University in 1989 and M.Sc. in Hydrogeology in 1991 from the same university. He obtained Ph. D from the University of Wuerzburg in 1995 in *Hydrology and Groundwater Artificial Recharge*.

Dr. Atef Al-Kharabsheh is a professor of hydrology and water resources at the Department of Water Resources and Environmental Management/Faculty of Agricultural Technology at Al-Balqa' Applied University at Al-Salt, Jordan. He is the Vice President of Al-Balqa' Applied University (two times). He was the Dean of the Faculty of Agricultural Technology and was also the Dean of Faculty of Graduate Studies and Scientific Research. He was also Chairman for the Department of Water Resources and Environmental Management. He worked as researcher at the Water and Environment Research Center at the University of Jordan. He served as technical advisor to several governmental agencies and research institutions and as technical consultant to local and international agencies in the area of water resources and drought management. His researches cover areas of water resources

management and modelling, hydrology, hydrogeology, urbanization effects on water resources, wadi hydrology, artificial recharge of groundwater and water harvesting.

Dr. Atef Al-Kharabsheh is a member of the UNESCO International Hydrological Program and Groundwater Protection Network. During his work at Al-Balqa' Applied University, he established the department of Water Resources and Environmental Management and was the first chairman of the department. He participated in many international conferences, workshops and training courses in the field of water resources and management.

Dr. Atef Al-Kharabsheh was the director of Princess Tasneem Bint Ghazi for Technical Research Station and got wide experience in the area of water management and water harvesting under drought conditions. He published more than 50 researches, in addition to 3 books in the areas of water resources and environmental management.

2. EDUCATION

(1991-1995): Ph. D. degree in Hydrology and Groundwater Artificial Recharge, Institute of Geology, Wuerzburg University, Wuerzburg, Germany.

(1989-1991): M. Sc. degree in Hydrogeology, Dept. of Earth and Environmental Sciences, Yarmouk University, Irbid, Jordan.

(1985-1989): B. Sc. degree in Earth and Environmental Sciences, Dept. of Earth and Environmental Sciences, Yarmouk University, Irbid, Jordan.

3. EXPERIENCE

Jan., 2012-Present: Vice President for International Programs and Investment Affairs, Al-Balqa' Applied University, Al-Salt, Jordan.

Jan., 2013-Present: A member of National Executive Committee of UNESCO Office, Amman.

Feb 2012-Present: Chairman of Consultations, Studies and Training Center Committee, Al-Balqa' Applied University, Al-Salt, Jordan.

Dec., 2012- Present: Member of trustees Committee of Mutah University.

March 2012-October, 2012: Director of Consultations, Studies and Training Center, Al-Balqa' Applied University, Al-Salt, Jordan.

May 2012-October 2012: Professor of the UNESCO Chair “Development of Vocational Resources for future, Al-Balqa' Applied University, Al-Salt, Jordan.

Feb., 2005-Present: Professor at the Water Resources and Environmental Management Department, Faculty of Agricultural Technology, Al-Balqa' Applied University, Al-Salt, Jordan.

Jan. 2011-Jan. 2012: Sabbatical leave at the Hashemite University, Zerqa, Jordan.

June 2009-June 2010: President Advisor of Al-Balqa' Applied University, Al-Salt, Jordan.

March 2005-April 2008: Vice President of Al-Balqa' Applied University (Administrative Affairs), Al-Salt, Jordan.

Nov., 2001-March 2005: Dean of Faculty of Agricultural Technology, Al-Balqa' Applied University, Al-Salt, Jordan.

Jan., 2001-Nov., 2001: Dean of Faculty of Graduate Studies and Scientific Research, Al-Balqa' Applied University, Al-Salt, Jordan.

Feb., 2000- Feb., 2005: Associate Professor at the Water Resources and Environmental Management Department, Faculty of Agricultural Technology, Al-Balqa' Applied University, Al-Salt, Jordan.

Sept., 1997-Feb., 2000: Assistant Professor at the Water Resources and Environmental Management Department, Faculty of Agricultural Technology, Al-Balqa' Applied University, Al-Salt, Jordan.

Sept., 2000-Jan., 2001: Director of the Management of Water Resources and Environmental Management Department, Faculty of Agricultural Technology, Al-Balqa' Applied University, Al-Salt, Jordan.

Feb., 1999-Sept., 2000: Assistant Dean, Faculty of Agricultural Technology, Al-Balqa' Applied University, Al-Salt, Jordan.

Feb., 1999-Sept., 1999: Director of the Management of Water Resources and Environmental Management Department, Faculty of Agricultural Technology, Al-Balqa' Applied University, Al-Salt, Jordan.

August, 1995-Sept., 1997: Researcher at the Water & Environment Research and Study Center (WERSC), University of Jordan, Amman, Jordan.

Jan, 1992-May, 1995: Research Assistant at the Hydrogeology Department, Institute of Geology, Wuerzburg University, Wuerzburg, Germany.

1989-1991: Teaching and Research Assistant at the Dept. of Earth and Environmental Sciences, Yarmouk University, Irbid, Jordan.

Sept., 16-Oct., 14, 2000: International expert by UNESCO to study drought problems in Balochistan/Pakistan, the mission focused on the assessment of existing water resources as well as artificial recharge and the construction of small dams to face the drought problems affecting the area.

2002-2010: Member of trustees Committee of Al-Ahliyya Amman University.

Sept., 1997-Sept., 2002: Establishing the following Departments at the Faculty of Agricultural Technology, Al-Balqa' Applied University:

1. Dept. of Water Resources and Environmental Management
1. Dept. of Food Processing

2013-Present: A member of the editorial board of the following Journals:

1. Current World Environment, Enviro Research Publishers, Volume, Bhopal, India.
2. Geological Resource and Engineering, David Publishing Company, New York, USA.

1. WORKSHOPS, TRAINING & CONFERENCES

1. 15th International Symposium on Vulcaoepelology (Executive Secretary), the Hashemite University, 15-22/3/2012, Zarka, Jordan.
2. Workshop of Establishing a Strategic Network in Higher Education Aspects with a paper entitled "Strategic Plan of Al-Balqa' Applied University" held at Yarmouk University during 30/10-1/11/2012, Irbid, Jordan.
3. Chariman of the Organizing Committee of the Workshop "Management of Water Crises in Arid Regions" held at Al-Balqa' Applied University and sponsored by UNESCO during 15-16/12/2004.
4. The 10th International Conference of Jordanian Geologists Association and the 7th International Symposium on Middle East Geology, 3-5 April/2011, Amman, Jordan.
5. Participated in accreditation committees for many Jordanian universities.

6. Third Agricultural National Conference, Agricultural Engineers Association, Amman 16/12/2002, Jordan.
7. First International Conference on “Wadi Hydrology” held in Sharm El-Sheikh/Egypt during 21-23/11/2000 and organized by UNESCO.
8. Second International Conference on “Wadi Hydrology” held in Amman/Jordan during 1-4/7/2003 and organized by UNESCO.
9. Participated as an international expert in the Global International Water Assessment Project, which is sponsored by ESCWA/UNEP.
10. Participated as a trainer in the “Environmental Impact Assessment Training Course”, which was held at Al-Balqa’ Applied University in cooperation with the General Corporation for the Environment Protection.
11. Regional launching workshop for “Wadi Hydrology” which organized by UNESCO during 3-4 June 1996 in Cairo.
12. Regional workshop for “Groundwater Protection” which organized by UNESCO during 5-6 June 1996 in Cairo.
13. Workshop for Artificial Recharge of Groundwater during 1-2 September 1996. The workshop is organized by Development Alternatives, Inc. Science Applications International Corporation and sponsored by the United States Agency for International Development and the Ministry of Water and Irrigation of the Kingdom of Jordan.
14. Training course in Washington State University (13-29 June 1996). The training course was about water models.
15. Seminar training course of trainers on groundwater protection, which held in Cairo during 9-17 December 1996, UNESCO Cairo Office, Regional Office for Science and Technology for the Arab States, Cairo.
16. Workshop “Political Economy of the Environment”, which was held in Ankara, Turkey, from 21 Sep. to 1 Oct. 1998, World Bank.

17. Azraq Oasis Conservation Project, a joint project between the Ministry of Water and Irrigation, Ministry of Agriculture, Royal Society for Nature Preservation and the University of Jordan supported by the United Nations.
18. Badia Research and Development Program. A project supervised by the Council for Science and Technology (HCST).
19. Participating as trainer in many training courses held in the Water & Environment Research and Study Center, University of Jordan.
20. Participated in the MEDCOASTLAND Project supported by Mediterranean Agronomic Institute, Bari-Italy and European Commission.
21. Watershed Monitoring and Evaluation Project in the Middle East financed by United States Department of Agriculture (2000-2005).
22. Participated in the project of Air Pollution Control in Cement Industry, Jordan (2006-2008).
23. Project of Utilization of Phosphate Water in Agriculture financed by European Commission (2004-2006).

5. PUBLICATIONS

1. **Al-Kharabsheh, A. (2013).** Effect of Arab Spring on Water Crises Management in Jordan, UNESCO, Volume 24, Amman, Jordan.
2. **Al-Kharabsheh, A. and Alatoum, M. (2013).** Effect of Agricultural Activities on Water Quality Deterioration of Mujib Basin, Journal of Current World Environment, Enviro Research Publishers, Volume 8, No. 3, Bhopal, India.
3. Al-Kharabsheh, N., **Al-Kharabsheh A.** and Ghnaim O. **(2013).** Effect of Septic Tanks on Springs Water Quality Deterioration in Wadi Shu'eib Catchment Area/Jordan, Jordan Journal of Agricultural Sciences, University of Jordan, Volume 9, No. 1, Amman, Jordan.
4. Al-Hadidi, M., **Al-Kharabsheh, A.** and Ta'any, R. **(2013).** Impact of Over-pumping on the Groundwater Quality of the Dead Sea Basin/Jordan, Journal of Current World Environment, Enviro Research Publishers, Volume 8, No. 3, Bhopal, India.

5. Al-Hadidi, M., and **Al-Kharabsheh, A. (accepted)**. Effect of Overpumping on Water Quality Deterioration in Arid Areas: A Case Study of Dead Sea Basin/Jordan, Jordan Journal of Agricultural Sciences, University of Jordan.
6. **Al-Kharabsheh, A. (2012)**. Water Crises in Jordan: Resources and Challenges, Journal of Scientific Research, Jordan Society for Scientific Research, No. 4, Amman, Jordan.
7. **Al-Kharabsheh, A.** and Alatoum, M. **(2011)**. Effect of Agricultural Activities on Water Quality Deterioration of Mujib Basin, Jordan, 10th International Conference of Jordanian Geologists Association and the 7th International Symposium on Middle East Geology, Amman, Jordan.
8. **Al-Kharabsheh, A. (2006)**. Improvement of Spring Water Quality by Water Harvesting at the Central Part of Jordan Valley (Jordan), Dirasat Journal, Agricultural Series, Vol. 33, No. 3, University of Jordan, Amman, Jordan.
9. **Al-Kharabsheh, A. (2004)**. Sustainable Management of Water Resources in Jordan, 8th international Geological Conference, 6-7 April, Amman, Jordan.
10. **Al-Kharabsheh, A. (2004)**. Artificial Groundwater Recharge at the Northeastern Badia of Jordan: A Case Study of Azraq Basin, International Workshop on Water-a Crucial Object in the Middle East and North Africa, German Academic Exchange Service, Jordan University for Science and Technology, Irbid, Jordan.
11. **Al-Kharabsheh, A. (2004)**. Influence of Rainfall Distribution on Surface Runoff and Groundwater Recharge at Wadi Wala Catchment Area; Jordan, Journal of Hydrogeology and Environment, Wuerzburg University, Wuerzburg, Germany.
12. **Al-Kharabsheh, A.** and Al-Ayyash, S. **(2004)**. Impact of Water Harvesting on Water Quantity and Quality at the Central Part of Jordan Valley, Workshop of Water Crises Management in Arid Regions, Al-Balqa' Applied University in Cooperation with UNESCO, Al-Salt, Jordan.
13. **Al-Kharabsheh, A.** and Ta'any, R. **(2004)**. Challenges of Water Demand Management in Jordan, International Water Resources Association (IWRA), Southern Illinois University, Carbondale, USA.

14. Al-Zu'bi, Y., Ta'any, R. and **Al-Kharabsheh, A. (2006)**. Watershed Characteristic of Wadi Dafali Catchment Area, *World Journal of Agricultural Sciences* 2 (4): 465-476, IDOSI Publications, Canada.
15. Al-Ayyash, S., Shatanawi, R. and **Al-Kharabsheh, A. (2004)**. Rainwater Harvesting in the Northern Badia of Jordan, Workshop of Water Crises Management in Arid Regions, Al-Balqa' Applied University in Cooperation with UNESCO, Al-Salt, Jordan.
16. Al-Malabeh, A. and **Al-Kharabsheh, A. (2004)**. Water Harvesting in the Black Basaltic Deserts, Jordan, Workshop of Water Crises Management in Arid Regions, Al-Balqa' Applied University in Cooperation with UNESCO, Al-Salt, Jordan.
17. Al-Zu'bi, Y. and **Al-Kharabsheh, A. (2004)**. Application of DSS for Water Productivity Analysis in the Jordan Valley, Workshop of Water Crises Management in Arid Regions, Al-Balqa' Applied University in Cooperation with UNESCO, Al-Salt, Jordan.
18. **Al-Kharabsheh, A.** and Ta'any, R. (2003). Influence of Urbanization on Water Quality Deterioration during Drought Periods at South Jordan, *Journal of Arid Environments*, Elsevier, Vol. 53, No. 4, pp. 619-630, Cambridge, England.
19. **Al-Kharabsheh, A.** and Al-Zu'bi, Y. (2003). Environmental Impact of Return Flow on Groundwater Quality in Arid Areas: A Case Study of Azraq Basin, Jordan, *Alexandria Science Exchange*, Vol. 2, No. 24, Alexandria University, Alexandria, Egypt.
20. **Al-Kharabsheh, A. (2003)**. Potentials of Surface Water Utilization at Wadi Hasa Es Safi Catchment Area (Jordan), *Alexandria Science Exchange*, Vol. 2, No. 24, Alexandria University, Alexandria, Egypt.
21. **Al-Kharabsheh, A.,** Al-Zu'bi, Y. and shatanawi, M. (2003). Utilization of Surface Water to Recharge Groundwater at the Northeastern Part of Jordan, second International Conference on Wadi Hydrology (1-4 July), Amman, Jordan.
22. **Al-Kharabsheh, A. (2002)**. Artificial Groundwater Recharge of Azraq Basin at the Northeastern Part of Jordan: A Case Study for Evaluating Arid Area Conditions, *Advances in Agricultural Research*, Vol. 7, No. 1, Alexandria University, Alexandria, Egypt.
23. **Al-Kharabsheh, A. (2002)**. Influence of Khirbet Es-Samra Waste Water Treatment Plant on Spring Water Quality Deterioration at Zerqa River Basin: Example of Arid Area

Conditions (Jordan), *Advances in Agricultural Research*, Vol. 7, No. 3, Alexandria University, Alexandria, Egypt.

24. **Al-Kharabsheh, A.** and Ta'any, R. (2002). Effect of Urbanization on Groundwater Quality in Karistified Aquifers as Influenced by Arid Conditions: A Case Study of Yarmouk Basin (Jordan), *Advances in Agricultural Research*, Vol. 7, No. 3, Alexandria University, Alexandria, Egypt.

25. **Al-Kharabsheh, A.** and Al-Malabeh, A. (2002). Water Harvesting in Wadi Al-Maghayer in Azraq Basin, Jordan and its Environmental Impact, *Urban Development in Arid Regions & Associated Problems*, Ministry of Public Works and Housing, 2-4/11/2002, Vol. 3, Riyadh, Saudi Arabia.

26. **Al-Kharabsheh, A.** and Al-Mahamid, J. (2002). Optimizing Pumping Rates of Hallabat-Khalidiya Wellfield Using Finite-Difference Model: A Case Study for Evaluating Overpumped Aquifers in Arid Areas (Jordan), *Journal of Arid Environments*, Vol. 52, No. 2, pp. 259-267, Elsevier, Cambridge, England.

27. **Al-Kharabsheh, A.** and Ta'any, R. (2002). Utilization of Surface water as a source of Groundwater Artificial Recharge at Wadi Za'tari Catchment Area (Jordan), *Advances in Agricultural Research*, Vol. 7, No. 1, Alexandria University, Alexandria, Egypt.

28. **Al-Kharabsheh, A.,** Ta'any, R. and Abu-Awwad, A. (2002). Influence of Urbanization on Water Quantity and Quality at Wadi Shueib Catchment Area (Jordan), *Advances in Agricultural Research*, Vol. 7, No. 3, Alexandria University, Alexandria, Egypt.

29. Al-Zu'bi, Y. and **Al-Kharabsheh, A.** (2003). Multicriteria Analysis for Water Productivity in the Jordan Valley, *International Water Resources Association (IWRA)*, Vol. 28, No. 4, Southern Illinois University, Carbondale, USA.

30. Al-Malabeh, A. and **Al-Kharabsheh, A.** (2002). Industrial Evaluation and Economic Potential of Scoria Deposits from Northern Badia Region, *Urban Development in Arid Regions & Associated Problems*, Ministry of Public Works and Housing, 2-4/11/2002, Vol. 3, Riyadh, Saudi Arabia.

31. Al-Zu'bi, Y., **Al-Kharabsheh, A.,** Abu Hijleh, A. and Al-Shreideh, B. (2002). Application of Multicriteria Analysis for Ranking and Evaluation of Waste Water Treatment Plants and its Impact on the Environment and Public Health: Case Study from Jordan,

International Conference on Waste Water Management and its Effect on the Environment in Hot and Arid Countries: Muscat, Oman.

32. Ta'any, R. and **Al-Kharabsheh, A. (2002)**. Effect of Hydraulic Characteristics of Karst Springs on Discharge Magnitudes of Wadi Shue'ib Catchment Area, Jordan, Alexandria Science Exchange, Vol. 23, No. 3, Alexandria University, Alexandria, Egypt.
33. Al-Zu'bi, Y., Shatanawi, M., Al-Jayoussi, O. and **Al-Kharabsheh, A. (2002)**. Application of Decision Support System for Sustainable Management of Water Resources in the Azraq Basin–Jordan, International Water Resources Association (IWRA), Vol. 27, No. 4, pp. 532-541, Southern Illinois University, Carbondale, USA.
34. **Al-Kharabsheh, A. (2002)**. Challenges of Agricultural Education in Jordan, Third Agricultural National Conference, Agricultural Engineers Association, Amman, Jordan.
35. Akawwi, E. and **Al-Kharabsheh, A. (2001)**. Consolidation Coefficient and Swelling Potential for the Expansive Soils in Jordan, The Electronic Journal of Geotechnical Engineering (EJGE), Vol. 6, USA.
36. Al-Zoubi, A. and **Al-Kharabsheh, A. (2001)**. Application of the DC Resistivity Methods to the Study of Groundwater in the Western Part of Amman, Jordan, Scientia Geologica Sinica, Vol. 10, No. 4, pp. 245-256, China.
37. **Al-Kharabsheh, A. (2000)**. Groundwater Modelling and Long-term Management of Azraq Basin as an Example of Arid Area Conditions (Jordan), Journal of Arid Environments, Article No. jare 1999.0580, Vol, 44, pp. 143-153, Cambridge, England.
38. **Al-Kharabsheh, A. (2000)**. Development of Strategic Plan for the Utilization of Surface Water Resources at Wadi Ed-Dafali Catchment Area (Jordan), Dirasat Journal, Vol. 27, No. 1, pp. 34-44, University of Jordan, Amman, Jordan.
39. **Al-Kharabsheh, A.** and Ghnaim, O. (2000). Effect of Urban Extension on Desertification and Groundwater Quality at Baqa Basin, Dirasat Journal, Vol. 27, No. 1, pp. 45-57, University of Jordan, Amman, Jordan.
40. Abed, A. M. and **Al-Kharabsheh, A. (2000)**. Silt Heaving and the Origin of the Azraq Basaltic Soil, Dirasat Journal, Vol. 27. No. 2, pp. 127-142, Amman, Jordan.

41. Abu-Awwad, A. M. and **Al-Kharabsheh, A. (2000)**. Influence of Supplemental Irrigation and Soil Furrowing on Barely Yield in Arid Areas affected by Surface Crust, *Journal of Arid Environments*, Vol. 46, No. 3, pp. 227-237, Cambridge, England.
42. Akawwi, E. and **Al-Kharabsheh, A. (2000)**. Lime Stabilization Effects on Geotechnical Properties of Expansive Soils in Amman, Jordan, *The Electronic Journal of Geotechnical Engineering (EJGE)*, Vol. 5, USA.
43. **Al-Kharabsheh, A. (1999)**. Influence of Urbanization on Water Quality at Wadi Kufranja Basin (Jordan), *Journal of Arid Environments*, Article No. jare 1999.0534, Vol. 43: pp. 79-89, Cambridge, England.
44. **Al-Kharabsheh, A. (1999)**. Influence of Long-term Overpumping on Groundwater Quality at Dhuleil Basin, Jordan, *Journal of Hydrogeology and Environment*, Heft 18, pp. 2.1-2.10, Wuerzburg, Germany.
45. **Al-Kharabsheh, A. (1999)**. Groundwater Quality Deterioration in Arid Areas: A Case Study of Zerqa River Basin as influenced by Khirbet Es-Samra, *Journal of Arid Environments*, Vol. 43: pp. 49-60, Cambridge, England.
46. Shatanawi, M. R., Rahbeh, M. E. and **Al-Kharabsheh, A. (1999)**. Rainfall-Runoff Relationship and Water Budget for Zerqa River Basin, *Dirasat Journal*, Volume 26. No.1: pp. 74-97, Amman, Jordan.
47. **Al-Kharabsheh, A. (1998)**. Utilization of Surface Water Resources for Groundwater Artificial Recharge Purposes in Wadi Aritain Catchment Area, *Abhath Al-Yarmouk*, Vol. 7: pp. 59-80, Irbid, Jordan.
48. **Al-Kharabsheh, A.** Al-Weshah, R. & Shatanawi, M. **(1997)**. Artificial Groundwater Recharge in the Azraq Basin (Jordan), *Dirasat Journal*, University of Jordan, Volume 24. No. 3: pp. 357-370, Amman, Jordan.
49. **Al-Kharabsheh, A. (1996)**. Water Budget and Hydrogeology of the Azraq Basin, *Technical Bulletin No. 19*, Water & Environment Research and Study Center Publications, Amman, Jordan.
50. **Al-Kharabsheh, A.,** and Shatanawi, M. **(1996)**. Groundwater Resources in Jordan and its Protection from Pollution, *Proceedings of the UNESCO/NWRC/ACSAD Workshop on*

“Wadi Hydrology” and “Groundwater Protection”, Technical Documents in Hydrology, No. 1, UNESCO Cairo Office, Cairo, Egypt.

51. Al-Malabeh, A. and **Al-Kharabsheh, A. (1996)**. Tectono-Magnetic Evolution of Harra Al-Jabban in Jordan and its Relation to Tectonic Development of the Afro-Arabian Dome, International Geological Congress, Volume 2, Beijing, China.

52. **Al-Kharabsheh, A. (1995)**. Possibilities of Artificial Groundwater Recharge in the Azraq Basin: Potential Surface Water Utilization of Five Representative Catchment Areas (Jordan), Journal of Hydrogeology and Environment, Wuerzburg University, Heft 10, Wuerzburg, Germany.

53. Shatanawi, M., **Al-Kharabsheh, A.**, and Al-Weshah, R. **(1996)**. The Jordan's Experience in Wadi Hydrology, Proceedings of the UNESCO/NWRC/ACSAD Workshop on “Wadi Hydrology” and “Groundwater Protection”, Technical Documents in Hydrology, No. 1, UNESCO Cairo Office, Cairo, Egypt.

54. Al-Kharabsheh, N. and **Al-Kharabsheh A.** (under publication). Influence of Urbanization on Water Quality Deterioration for Wadi Shu'eib Catchment Area Springs, Jordan, Jordan Journal of Earth and Environmental Sciences, Hashemite University, Zerqa, Jordan.

6. Books

1. **Al-Kharabsheh, A.** and Ghnaim, O. **(2010)**. Studies and Researches in Urban and Environmental Planning, Vol. 1, Safa Press, Amman, Jordan. (Arabic).

2. **Al-Kharabsheh, A.** and Ghnaim, O. **(2010)**. Studies and Researches in Urban and Environmental Planning, Vol. 2, Safa Press, Amman, Jordan. (Arabic).

2. **Al-Kharabsheh, A.** and Ghnaim, O. **(2009)**. Water Harvesting in the Arid and Semi-arid Areas, Safa Press, Amman, Jordan. (Arabic).

7. TEACHING COURSES

Hydrology, Hydrogeology, Meteorology, Water Resources, Irrigation, Environment, Geology.

8. LANGUAGES

	Reading	Writing	Speaking
English	good	good	good
German	good	good	good
Arabic	mother language		