

CURRICULUM VITAE (CV)

PROF. ABDALLAH SHANABLEH

Management Experience

- ❑ Founding Director of the Research Institute of Sciences and Engineering, RISE (9/2014-Present) at University of Sharjah, United Arab Emirates (Senior Management Appointment)
<http://www.sharjah.ac.ae/en/Research/RISE/Pages/default.aspx>
- ❑ Chairman of Department of Civil & Environmental Engineering (9/2006-9/2010)
- ❑ Chairman of Research Groups and Activities Department in the University Research and Studies Center (9/2001-2/2003)
- ❑ Chairman of the Central Consultancy and Studies Department in the University Research and Studies Center (2/2003-8/2006)
- ❑ Acting Dean (Summer 2007/2008), University of Sharjah, UAE
- ❑ Various Leadership Roles, Including Formation and Coordination of a Research Groups
- ❑ Long Service in Key Senior Committees at the University and College levels

Establishment of the Research Institute of Sciences and Engineering (RISE)

- ❑ Direct involvement in preparation of the university research strategic plans and regulations and research organizational structure
- ❑ Responsibility for establishment, funding and managing 19 Research Groups, 7 Research Centers (1-established, 6-being established), and 11 support research laboratories and workshops, with over 150 faculty researchers and 40 research assistants and post-docs
- ❑ Preparation and control of significant annual budgets and employment and management of over 40 assisting employees, technicians, and administrative staff
- ❑ Initiation of three interdisciplinary MSc programs in Sciences & Engineering
- ❑ Initiation and management of an international students' research exchange program
- ❑ Initiation of seminar series, organization of RISE research groups' forums, and a number of international conferences
- ❑ Funding of hundreds of research grants for faculty members and students
- ❑ Developing collaboration agreements and joint projects with many local and international organizations

Long-Term Involvement in Research Development at UoS

- ❑ Active involvement in establishing, restructuring and/or planning of the various UoS research administration entities since 2001, which are; Research and Studies Center; College of Graduate Studies and Research; and Office of the Vice Chancellor for Research & Graduate Studies and associated institutes and departments
- ❑ Drafting the first UoS research bylaws and executive research bylaws (2003-2004)
- ❑ Founding and chairing the Research Groups and Activities Department (2/2003-8/2006)
- ❑ Founding and chairing the Research and Studies Department (9/2001-2/2003)

- ❑ Initiating the research groups annual forum (2005)
- ❑ Introducing two new research grant schemes - collaborative and targeted research grants
- ❑ Active involvement in establishing the UoS Journal of Pure and Applied Sci. (2004-2006)
- ❑ Active and long involvement in the University Research Board (URB)

Significant Undergraduate and Graduate Program Development Experience

- ❑ Leading role in development of the new PhD program in Civil Engineering (2017-Present)
- ❑ Leading role in restructuring of the MSc program in Civil Engineering to align it with the new PhD program (general framework and environmental track)
- ❑ Development of the non-thesis MSc in Civil Engineering, offered between 2007-2013
- ❑ Development of Environ. Eng. Specialization in MSc program in Civil Eng.
- ❑ Establishment of Environmental Eng. concentration in the Civil Engineering Program
- ❑ Major restructuring of the BSc Program in Civil Engineering to meet ABET requirements
- ❑ Major restructuring of the MSc program to streamline its many specializations
- ❑ Initiated and supervised establishment of three interdisciplinary programs under RISE, which are currently (2018) being considered for accreditation:
 - ✓ Interdisciplinary MSc in GIS and Remote Sensing
 - ✓ Interdisciplinary MSc in Environmental Science and Technology
 - ✓ Interdisciplinary MSc in Biomedical Engineering
- ❑ Promotion of Sustainable Development Education with international partners
- ❑ Development of most of the courses in the environmental engineering area in the BSc, MSc and PhD programs

Significant National and International Program Accreditation Experience

- ❑ Significantly contributed to preparation for accreditation of the PhD program by the UAE Commission for Academic Accreditation (CAA)
- ❑ Significantly contributed to the accreditation of the MSc program by the CAA.
- ❑ Lead the accreditation of the Civil Eng. MSc Program by the Ministry of Higher Education a Number of Times
- ❑ Lead ABET accreditation and reaccreditation of the BSc Program in Civil Engineering and coordinated ABET accreditation of two other engineering programs in the College of Engineering
- ❑ Actively participated in the accreditation of the BSc. Program in Civil Engineering by the Institution of Engineers, Australia
- ❑ Co-coordinated the establishment of the committee responsible for preparing the documents of the newly accredited M.Sc Program in Biomedical Engineering in UoS.

Significant Professional and Community Service Activity

- ❑ Foundation and organization of many professional conferences (1998-Present) with a number of colleagues from the UoS, including organizing a series of eight (8) international conferences on engineering education, 4 conferences on sustainable development, and 4

conferences on a variety of technical topics such as desalination, water resources management, earthquakes hazard, and civil engineering materials and systems

- ❑ Initiation and negotiation of a number of collaboration agreements between the UoS and important local and international organizations
- ❑ Initiation and conduct of major, multimillion community service projects, including the unique UoS mountain-tunnel Seismic station as part of the global network
- ❑ Conduct of many projects in collaboration with government and industry

Significant Research Achievements

- ❑ Maintained, despite excessive teaching load and heavy administration involvement, a significant research activity manifested by numerous research grants and active publication record
- ❑ Experience includes: significant publication record; significant grant record; supervision of 4 PhD students at Queensland University of Technology (QUT), Australia, and supervision of tens of MSc students at UoS and QUT
- ❑ Published over 250 edited books, journal and conference articles and technical reports

Academic and Professional Awards and Scholarships

- ❑ Received a good number of academic and professional awards.

Collegial relations with administrators, researchers & employees at UoS

- ❑ Maintained collegial and professional relations with UoS administrators, researchers, and employees

Academic Advising

Advisor - Environmental Concentration

As coordinator of the Environmental Engineering Concentration within the Civil Engineering Program, I advise students on all issue related to the environmental concentration and job prospects after graduation.

Academic Advising

Although the department did not assign me advisees due to my appointment as director of research institute, I advise many graduate and undergraduate students who approached me for academic advice.

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Education						
Degree	Date	Major	Specialization	Grad. Date	GPA	University /Country
PhD	12/1990	Civil Engineering	Environmental Engineering	12/1990	4/4	University of Texas at Austin, USA
MSc	12/1988	Civil Engineering	Environmental Engineering	12/1988	4/4	University of Texas at Austin, USA
	Fall 1986/87	Civil Engineering	Water Resources Engineering	Transferred to University of Texas at Austin	4/4	Arizona State University Tempe, Arizona, USA
BSc	6/1986	Civil Engineering	Structural Engineering	6/1986	86% (Excellent)	University of Jordan Amman, Jordan

Professional Appointments				
Position	Organization	Location/Country	Duration of Experience	
			From	To
Senior Environmental Engineer	Engineering- Science, Inc.	Houston, Texas, USA	9/1990	2/1992
Project Coordinator	Arab Science & Technology Foundation	Sharjah, United Arab Emirates	2/2004	5/2005

Management Appointments/ Experience			
Administration Position	Name of University	Duration	
		From	To
<p>Director of Research Institute of Sciences and Engineering (Founding Director) at University of Sharjah</p> <p>This is a major senior appointment that involves founding a new organization equivalent to a new college. Please refer to website for details.</p> <ul style="list-style-type: none"> • Developing strategic plans • Establishment of Centers and Groups • Establishment and equipping research laboratories, workshops & facilities • Appointment of research and admin employees • Managing a significant budget • Managing people and assets • Assessing employees' performance • Managing employees • Reporting on performance • Community relations • Specifying research building requirements • .. etc 	University of Sharjah, UAE	9/2014	Present
Chairman of Department of Civil & Environmental Engineering	University of Sharjah, UAE	9/2006	9/2010
Acting Dean College of Engineering	University of Sharjah, UAE	Summer 2007/2008	
Department Chairman (Founding Chair) Research Groups & Activities Department University research and Studies Center	University of Sharjah, UAE	2/2003	8/2006
Department Chairman (Founding Chair) Central Research & Consultancy Department, University Research & Studies Center	University of Sharjah, UAE	9/2001	2/2003
Founder and Coordinator University of Sharjah Seismic Station	University of Sharjah, UAE	9/2006	Present
Founder and Coordinator Hazards and Engineering Risk Management Research Group	University of Sharjah, UAE	9/2006	9/2010
Research Group Leader Water/Environmental Research Group, Physical Infrastructure Research Center	Queensland University of Technology, Australia	1998	2000
Program Coordinator Graduate Program, Department of Civil Engineering	Queensland University of Technology, Australia	2000	1 Semester then Left to Sharjah
Program Coordinator Environmental Engineering Program, Department of Civil Engineering	Queensland University of Technology, Australia	1994	2000

Founder and Coordinator Environmental Engineering Concentration within Civil Engineering	University of Sharjah, UAE	9/2010	Present
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Other Administrative Duties			
Position	College/Administration	Duration of Experience	
		From	To
Project Manager: Development of Online Software for Faculty Evaluation	University of Sharjah	2017	Present
Coordinator: Environmental Concentration within the Civil Engineering Program	Department of Civil and Environmental Engineering	Sept 2010	Present
Coordinator: University of Sharjah Seismic Station – in partnership with UCSD and IRIS	Report to Chancellor	2005	2010

Academic Appointments				
Academic Rank	Name of University	Location/ Country	Duration of Rank	
			From	To
Professor Civil/Environmental Eng	University of Sharjah	Sharjah UAE	9/2007	Present
Associate Professor Civil/Environmental Eng	University of Sharjah	Sharjah UAE	9/2000	9/2007
Senior Lecturer (Tenured)	Queensland University of Technology	Brisbane, Queensland, Australia	8/1996	Full Time 08/2000 on-Leave 12/2002
Visiting Professor	Kyoto University	Kyoto, Japan	7/1998	10/1998 Sabbatical
Visiting Scholar	University of Texas at Austin	Austin, Texas, USA	10/1998	1/1999 Sabbatical
Lecturer (Australia)- Equivalent to Assistant Professor	Queensland University of Technology	Brisbane, Queensland, Australia	7/1994	7/1996
Assistant Professor	University of Jordan	Amman, Jordan	1/1992	8/1994
Research Assistant	University of Texas at Austin	Austin, Texas, USA	1/1989	8/1990

Membership of Senior Academic Committees				
Committee	Member/ Chair	Organization	Duration of Experience	
			From	To
Annual performance appraisal system for faculty members	Member	University of Sharjah	1/2019	Present

Scientific and Administrative Board for the Sharjah Center for Astronomy and Space Sciences	Member	University of Sharjah	8/2018	Present
University Deans' Council	Member	University of Sharjah	9/2017	Present
Executive Committee of Office of Vice Chancellor for Research	Member	University of Sharjah	9/2014	Present
University Research Board	Member and Secretary	University of Sharjah	11/2014	Present
University Graduate Studies Board	Member	University of Sharjah	9/2012	Present
Innovation Box Higher Committee - – University level	Member	University of Sharjah		
Undergraduate Program Committee – Department Level	Member	University of Sharjah		
Department Council - Department Level	Member	University of Sharjah		
Research Bylaws and VCRGS Office Organization Structure Development Committee	Member	University of Sharjah	2014/2015	
University Research Restructuring Committee	Member	University of Sharjah	2013/2014	
Faculty Performance Evaluation System Development Committee	Member	University of Sharjah	2014/2015	Present
University Academic Board	Elected Member	University of Sharjah	3/2012	12/2013
University Research Board	Member and Secretary	University of Sharjah	8/2006	9/2011
			11/2014	Present
University Graduate Studies Board	Member	University of Sharjah	9/2012	Present
ABET Accreditation Committee – Special Committee Formed by Chancellor	Chair	University of Sharjah	3/2009	9/2011
College of Engineering Board	Member	University of Sharjah	Various periods during 9/2000 to 8/2011	
College of Engineering Research Committee	Chair and Member	University of Sharjah	2/2004	5/2005
			9/2013	9/2014
Academic Promotion Committees -Department & College levels	Chair/Member	University of Sharjah	9/2006	9/2014
Department Committees Research, Teaching and Learning, Program Accreditation	Chair and Member	University of Sharjah	9/2000	9/2014
The Selby Working Group on Sustainable Development	Chair	Queensland University of Technology	9/1996	8/2000

Membership Of Special Committees					
Committee Name	Type of Committee	Role	Report To	Level	Years
Supervisory Committees for the Idea and Innovation Box	Special	Member	Chancellor	Chancellor's Office	2022/2023
University Research Board	Special	Member	Vice-Chancellor for Research and Graduate Studies	University	2022/2023
Committee to Implement the Study on UoS Space Management	Special	Member	Vice Chancellor for Academic Affairs	University	2021/2022
Supervisory Committees for the Idea and Innovation Fund	Special	Member	Chancellor	Chancellor's Office	2021/2022
Board of Trustees – Sharjah Chamber Award for Innovators	Special	Member	Chancellor	Chancellor's Office	2021/2022
Strategic Committee for Sharjah Oasis for Technology and Innovation (SOTI)	Special	Member	Chancellor	Chancellor's Office	2020/21
Committee to Referee the Selection of two RISE Research Centers Directors	Special	Member	Chancellor	Chancellor's Office	2020/21
Scientific Committee for evaluation of the UoS-Skoltech proposals	Special	Member	Chancellor	Chancellor's Office	2020/21
Committee to Referee the Sharjah Islamic Bank Award for Faculty and Students	Special	Chair	Chancellor	Chancellor's Office	2020/21
Committee for Establishment of Desalination & Water Treatment Laboratory	Special	Chair	Chancellor	University	2020/21
Higher Committee for Sharjah International Conference for Water and Climate Change	Special	Member	Chancellor	Chancellor's Office	2020/21
Higher Committee for the Ideas and Innovation Fund	Special	Member	Chancellor	Chancellor's Office	2020/21
Committee for Revising Faculty Evaluation	Special	Member	Chancellor	University	2020/21
3 rd International Conference on Water and Environmental Engineering (iCWEE 2020)	Special	Member			2019/2020
Sharjah Excellence Award Judge Panel	Special	Member	-		2019/2020
Sharjah Economic Excellence Network	Special	Member		University	2018/2019

Awards – Sharjah Green Award Judging Panel					
Committee to Prepare Decision to Establish Sharjah Academy for Astronomy and Space Science and Technology (SAASST) through SCASS Transformation	Special	Chair	Chancellor	University	2018/2019
Committee to Establish Organizational Structure of Sharjah Academy for Astronomy and Space Science and Technology (SAASST)	Special	Chair	Chancellor	University	2018-2019 - Present
Committee to Establish Sharjah Oasis for Technology & Innovation (SOTI)	Special	Member	Chancellor	Senior Management, University	2018/2019 - present
Committee on Integration of Research into Teaching and Learning 2018/2019	Special	Member		University	2018/2019
Committee to Establish and Supervise Online Faculty Evaluation System	Special	Chair	Chancellor	University	2016/2017 - Present
Committee to Establish & Supervise Online faculty Promotion System	Special	Chair	Chancellor	University	2018/2019 - Present
University Budget Committee for 2018/2019	Special	Member	Vice Chancellor Admin & Finance	Senior Management, University	2017/2018
University Bank of Sharjah Research Award Committee	Special	Chair	Chancellor	University	2016/2017 2017/2018 2018/2019
Committee To Propose System for Integration of Research into Teaching and Learning	Special	Member	Vice Chancellor for Academic Affairs	University	2017/2018
Committee To Manage Integration of Research into Teaching and Learning	Special	Member	Vice Chancellor for Academic Affairs	University	2018/2019
Committee to Follow-up Implementation of Integration of Research into Teaching and Learning	Special	Member	Vice Chancellor for Academic Affairs	University	2018/2019
Management Committee of Sharjah Center for Astronomy & Space Sciences	Special	Member	Chancellor	University	2018/2019
Department Promotion Committee	Special	Chair & Member	Chair of Department	Department	On-Going
Faculty Evaluation System Committee	Special	Member	Chancellor	University	2015/2016 2016/2017
MSc Program Modification Committee	Special	Member	Chair of Department	Department	2018/2019

PhD Program Development Committee	Special	Member	Chair of Department	Department	2016/2017 - Present
Research Consultation Guidelines Committee	Ad-Hoc	Member	Vice Chancellor for Academic Affairs	University	2017/2018

Membership Of External Research-Related Committees		
Research Committee	Organization	Duration
Coordinator – SEWA Research Professor Chair and Related Projects and Activities	Sharjah Electricity & Water Authority	2016-present
Coordinator – Al Shukra Research Professor Chair and Related Projects and Activities	Al Shukra Research Chair	2016-present
University Representative with Sharjah Government Delegation to Visit Finland for the Sharjah Technology Park	Sharjah Executive Council	2017/2018
University Representative on a Number of Agreement with External Organizations	Sharjah Department of Civil Aviation, UAE Society of Engineers, Al Jalila Foundation, Dubai Municipality, National Center of Meteorology, Sharjah Research Academy, UCSD, ...	2015-Present
UAE National Sustainability Research Committee, Chaired by H.E. Minister of Climate Change and Environment	Minister of Climate Change and Environment	2016-Present
Joint UoS-SRA-SM Research Project Steering Committee	Sharjah Research Academy, Sharjah Municipality	2017-Present
Joint UoS-SRA-Qatra Collaboration Committee	Sharjah Research Academy Qatra Company	2018-Present
KSA-UAE Coordination Council	Ministry of Climate Change	Nominated by University in 2019

Membership of External Conference Committees:			
No	Activity	Membership	Date
1.	The 13 th International Conference on Development in eSystems Engineering (DeSE2021)	Member of the Scientific Committee	March, 2021
2.	2019 Sustainable Energy & Environmental Protection, University of Sharjah	Member of Technical Committee	March, 2019
3.	Sixth International Conference on Water, Energy and Environment (ICWEE19)	Member of Technical Committee	March, 2019
4.	Innovation Arabia 12 (IA12), Dubai, United Arab Emirates	Technical Committee	February, 2019
5.	2nd International Conference on Engineering Education and Research, Western Sydney University, Parramatta South Campus during	Advisory Committee	26th Nov to 28th Nov 2018.

6.	5th International Conference on Water, Energy and Environment, 28 Feb- 2 March, 2017, American University of Sharjah, UAE.	Technical Committee	2017
7.	The 7th International Conference on Sustainable Energy Information Technology May 16-19, 2017, Madeira, Portugal	Technical Committee	2017

International Research Students Exchange Program		
No	Description	Date
1.	Received and trained within RISE 27 Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2022/2023
2.	Received and trained within RISE 14 Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2021/2022
3.	Currently received and trained within RISE 1 MSc student, and receiving multiple other applications during the current period. The exchange program is hindered due to the current COVID-19 pandemic. Students are paid to work as research assistants for 3-6 Months.	2020/2021
4.	Received and trained within RISE 8 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2019/2020
5.	Received 17 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2018/2019
6.	Received 13 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2017/2018
7.	Received 10 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2016/2017

Organization of Forums		
No	Description	Date
1.	5th International Exchange Students' Research Forum	18/11/2021
2.	Progress of COVID-19 UoS Funded Research Projects	10/6/2021
3.	University of Sharjah (UoS) and Sharjah Electricity, Water, and Gas Authority (SEWA) Collaboration Projects	20/5/2021
4.	Sharjah Oasis for Technology and Innovation (SOTI)	1/4/2021
5.	4th International Exchange Students' Research Forum	2019/2020
6.	5th Sciences, Engineering & Computing & Informatics Research Centers & Groups' Forum: Research Centers of Excellence	18/6/2020
7.	4th Sciences and Engineering Research Groups Forum: Towards Innovation and Value Creation	21/4/2019
8.	3rd International Exchange Students' Research Forum	2018/2019
9.	3rd Sciences and Engineering Research Groups Forum - Research in Service of the Community	19/4/2018
10.	2nd International Exchange Students' Research Forum: Building Bridges and Partnerships	2017/2018
11.	2nd Sciences and Engineering Research Groups Forum	9/4/2017
12.	1st International Exchange Students' Research Forum	2016/2017
13.	1st Sciences and Engineering Research Groups Forum	9/3/2016
14.	Joint Workshop - Interdisciplinary Collaboration – Medical & Health Sciences and Sciences & Engineering	13/4/2017

Judge/Expert Reviewer of Scientific Contributions			
Activity	Nature	Organization	Location and Dates
Member of the judging panel in the green schools and universities field	Sharjah Sustainability Award	Sharjah's Environment and Protected Areas Authority	2021/2022
Invited Primary Reviewer	The UAE Research Program for Rain Enhancement Science 4th cycle	National Center of Meteorology	UAE, March 2021
Member of the judging panel in the Engineering Sciences field	Abdul Hameed Shoman Arab Researchers Award	Abdul Hameed Shoman Foundation	Jordan, 2020
UAE Rain Enhancement Program Research Grants	Experts Panel Review of Large Research Grant Applications	National Center Meteorology & Seismology	Abu Dhabi, Sept 30-Oct 3, 2018
Think Science Competition & Fair 2018	Judge of Students Research Projects	Emirates Foundation	Dubai World Trade Center 15-18 April 2018
WMO International Competition	Reviewer of Contributions for Research Award for Young Scientists	World Meteorological Organization	26 March 2018
WMO International Competition	Reviewer of Contributions for Research Award for Young Scientists	World Meteorological Organization	2019

Keynote/Invited Presentations		
Event Title and Date	Event	Organized by:
2nd Palestinian Conference on Civil Engineering, Naplus, Palestine, October 2019	Conference	Al Najah University and Palestinian Engineers Society
"Young Professionals in Space 2019 Conference" scheduled from 4-6 November 2019, Dubai, United Arab Emirates.	Conference	Mohammad Bin Rashid Space Center and IEEE Dubai, UAE 2019
International Innovation Arabia Conference	Wastewater Reuse– The Issue of Emerging Contaminants	11-13 March 2018
Invited Presentation: Food Security & the Environment	Symposium on Food Industry & the Environment, 6th April 2017	Al-Rawabi Company and Dubai Municipality
Invited Presentation: Water & Energy Research at the Research Institute of Sciences and Engineering, University of Sharjah	Water & Energy Challenges & Capabilities in the UAE, 2017	Ministry of Energy & Emirates Scientists Council

Academic & Professional Awards		
Date	Award/Scholarship Title	Granting Organization
2021/2022	Special Recognition and Appreciation Awards – Outstanding Contribution and Leadership in Managing Research and Graduate Studies	University of Sharjah

2019	Sharjah Islamic Bank Award for Best Research Paper. Paper Details: L. Semerjian, A. Shanableh, M. Semreen and M. Samarai, "Human health risk assessment of pharmaceuticals in treated wastewater reused for non-potable applications in Sharjah, United Arab Emirates," Environment International, Vol. 121, Part 1, pp.325-331, December 2018. Applicant on Behalf of Coauthors: Dr. L. L. Semerjian. Project PI: Prof. Abdallah Shanableh	Sharjah Islamic Bank
2019	Dubai Award for Sustainable Transport 2019 – Best Academic Institution Supportive of Sustainability	Dubai Road and Transport Authority
2018	The "6th Sharjah Sustainability Award 2017-2018", Outstanding College Domain/Green Campus Category	Sharjah Environment and Protected Areas Authority, Government of Sharjah
2018	The "10th Dubai Award for Sustainable Transport (DAST) 2017 جائزة دبي للتنقل المستدام Best Academic Research Category (2nd Place) Awardees: Mohamad Ali Khalil, Dr. Khaled Hamad, and Prof. Abdallah Shanableh	Dubai Road and Transport Authority
2016	Dubai Award for Sustainable Transport 2016 Best Academic Research Category	Dubai Road and Transport Authority
2015	The "8th Dubai Award for Sustainable Transport (DAST) 2015 جائزة دبي للتنقل المستدام Best Academic Research Category (1st Place) Awardees: Eng. Iyad Shanoon; Prof. Abdallah Shanableh; and Dr. Khalid Hamad	Dubai Road and Transport Authority
2014/2015	Merit Award for Distinction in Teaching	University of Sharjah, Sharjah, United Arab Emirates
2011/2012	Merit Award for Distinction in Teaching	
2008/2009	Merit Award for Distinction in Teaching	
2008/2009	Best Research Group Award for "Hazards and Engineering Risk Management Research Group"	
2005/2006	Merit Award for Outstanding Contributions in Teaching, Research & Service	
2001/2002	Merit Award for Distinction in Community Service	
1999	Innovation in Teaching Award Faculty of Built Environment & Engineering	Queensland University of Technology, Brisbane, Australia
2000	2000 University Nominee for Australian National Education Award "Australian Awards for Teaching". Withdrawn nomination due to leaving and joining UoS	
1992	Engineering Performance Recognition Award	Shell Oil Company through Engineering-Science, Inc., USA
1991	Engineering Performance Recognition Award	

Other Research-Related Recognition			
Form of Recognition	Nature	Organization	Location and Dates
Invited Keynote Speaker	the 1st Palestinian - Dutch conference on WASH and CSA	Funded by the Netherlands Foreign Affairs and through the OKP program of Nuffic	Palestine, November 2021
Invited Primary Reviewer	The UAE Research Program for Rain	National Center of Meteorology	UAE, March 2021

	Enhancement Science 4th cycle		
Member of the judging panel in the Engineering Sciences field	Abdul Hameed Shoman Arab Researchers Award	Abdul Hameed Shoman Foundation	Jordan, 2020
Speaker	4th International Rain Enhancement Forum (IREF) - Capacity Building in Meteorological Research and Operations	Jumeirah at Etihad Towers, Abu Dhabi, United Arab Emirates	Abu Dhabi
Invited Keynote Presentation	2nd Palestinian Conference on Civil Engineering, Naplus, Palestine, October 2019	Al Najah University and Palestinian Engineers Society	Palestine 2019
Invited Presentation	"Young Professionals in Space 2019 Conference" scheduled from 4-6 November 2019, Dubai, United Arab Emirates.	Mohammad Bin Rashid Space Center and IEEE	Dubai, UAE 2019
Membership of International Experts Panel Review of Large Research Grant Applications	UAE Rain Enhancement Program Research Grants	National Center Meteorology & Seismology	Abu Dhabi 2017/2018
Judge of Students Research Projects	Think Science Competition & Fair 2018	Emirates Foundation	Dubai World Trade Center 15-18 April 2018
Reviewer of Scientific Contributions for	International Competition - Research Award for Young Scientists	World Meteorological Organization	March 2018
Keynote Speaker. Topic- Wastewater Reuse- The Issue of Emerging Contaminants	International Innovation Arabia Conference 2018	Innovation Arabia – Hamdan E-University	11-13 March 2018
Invited Presentation in a Special Industry-Government-University Symposium	Symposium on Food Industry & the Environment,	Al-Rawabi Company and Dubai Municipality	Dubai Municipality, 6th April 2017
Invited Presentation: Water & Energy Research at the Research Institute of Sciences and Engineering, University of Sharjah	Water & Energy Challenges & Capabilities in the UAE	Ministry of Energy & Emirates Scientists Council	Dubai Intercontinental, 2017

Scholarships		
Date	Award/Scholarship Title	Organization

1986-1988 1988-1990	Fulbright Scholarship (Full MSc), 1986-1988 Fulbright Scholarship (Travel Only-PhD), 1989-1990	United States Information Agency
1981-1986	BSc Jordan Armed Forces Scholarship (Full Scholarship)	Jordan Army

Professional Registration	
Professional Registration	Date
Chartered Professional Engineer (CPEng), Institution of Engineers, Australia	1995-Present
Registered Engineer, Jordan Engineers Association, Jordan	(1986-Present)

Organization/Committees of Research-Related Professional Events		
SN	Event Title and Date	Role
1	2019 Sustainable Energy & Environmental Protection, University of Sharjah	Member of Technical Committee
2	Sixth International Conference on Water, Energy and Environment (ICWEE19)	Member of Technical Committee
3	International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), 18-20 April 2017	Conference Chair and Chair of Steering Committee Chair of Steering Committee Environment Track Chair Master of Opening Ceremony
4	8th International Forum on Engineering Education (IFEE2017), Jointly with the 4th International Conference Towards Sustainable Development (ICTSD), 18-20 April 2017	Founder & General Chair Chair of Steering Committee Master of Opening Ceremony
5	4th International Conference Towards Sustainable Development (ICTSD), 18-20 April 2017	Founder & General Chair Chair of Steering Committee Master of Opening Ceremony

Journal Editorial Involvement			
Position	Organization	Duration of Experience	
		From	To
Member - Editorial Board	Journal of Advanced Civil Engineering Practice and Research	1/2016	Present
Member - Editorial Board	Journal of Desalination and Water Purification, Malaysia	6/2015	Present
Member-International Advisory Committee	Journal of Hydrology and Environment Research, Australia	4/2013	Present
Editorial Secretary - University of Sharjah Journal of Pure & Applied Sciences	University of Sharjah	2/2004	10/2006

Executive Editor Research Update Newsletter	University of Sharjah	9/2001	6/2004
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Teaching & Learning Experience
Involvement in Accreditation Activities
<p>1. <u>ABET Reaccreditation of the BSc Program (Program Accredited for 2017-2022, On-Going Benefits to Department)</u></p> <p>My contributions included the following: I was designated as program leader, in charge of meeting the visiting ABET team, presenting the program quality assurance system, presenting samples of the course files, coordinating with other colleagues, and responding to requests & inquiries Helped secure chancellor's approval of critical program modifications needed to satisfy ABET requirements, namely changing two elective courses in the transportation and environmental areas into compulsory courses in preparation for ABET reaccreditation Advised and guided critical aspects of ABET reaccreditation preparation efforts in department The ABET reaccreditation report was based on the initial report, which I lead its preparation, including writing its most critical sections, as former chair of department. Made significant contributions to preparing, revising and editing of critical sections of the ABET report to ensure quality and compliance with ABET requirements</p> <p>2. <u>CAA Re-Accreditation of the BSc Program (Program Accredited between 2014-2019, On-Going Benefits to Department)</u></p> <p>Program received accreditation for the period 2014-2019 by the Commission for Academic Accreditation (CAA). I served as Chair of the Department Accreditation Committee with the responsibility of leading and coordinating the preparation of the self-study report. Additionally, I made significant contributions, including:</p> <ul style="list-style-type: none"> • Prepared major parts of the report • Advised and coordinated preparation of the other parts • Met with the visiting accreditation teams and explained various aspects of the program • Prepared a major component of the response to the suggestions and requirements of the visiting accreditation team <p>3. <u>Accreditation of the Graduate Civil Engineering Program (Program Accredited between 2014-2019)</u></p> <p>Program received accreditation for the period 2014-2019 by the Commission for Academic Accreditation (CAA). I served as chair of the Department Accreditation Committee (graduate and undergraduate) with the responsibility of leading and coordinating the preparation of the self-study report. Additionally:</p> <ul style="list-style-type: none"> • Prepared major parts of the report • Advised and coordinated preparation of the other parts • Met with the visiting accreditation teams and explained various aspects of the program • Prepared a major component of the response to the suggestions and requirements of the visiting accreditation team <p>4. <u>Initial ABET Accreditation of the Civil Engineering Program (2011-2016)</u></p> <p>Initiated and lead process, lead restructuring of the program to meet ABET requirements, prepared most critical parts of the self-study report, prepared the response reports, proposed and followed up implementation of compliance plan, and developed, with help from colleagues, an assessment system to demonstrate compliance with Program and learning objectives.</p>

5. **First ABET Accreditation of three BSc Programs in the College of Engineering**

I Chaired the College of Engineering ABET Accreditation Committee, which successfully secured for the first time ABET accreditation of three engineering programs for the period 2011-2017. The three programs are: (1) Civil Engineering; (2) Electrical and Electronics Engineering; and (3) Computer Engineering. As chair of the committee, I liaised with ABET organization and travelled to the USA to coordinate accreditation with the chair of the ABET accreditation team then coordinated the visiting team activities during their visit. I also coordinated the preparation of accreditation documents. As chairman of the Civil Engineering Department, I also lead preparation of the ABET self-study, which I wrote personally, then prepared all responses to ABET program evaluators.

6. **1st ABET Re-Accreditation of BSc Programs**

The department of Civil and Environmental Engineering is currently preparing for ABET-reaccreditation of its BSc. program. I am serving as department advisor and the department is updating the original ABET self-study report that I prepared back in 2011, to finalize its ABET submission. The department is also utilizing a quality assurance program that I prepared to assess achievement of outcomes of individual courses and the overall program.

7. **1st Re-Accreditation of the Civil Engineering BSc Program by UAE Ministry of Higher Education**

(Commission for Academic Accreditation, CAA) of the Civil Engineering Program (2008-2013). As chairman of department and program leader, I lead preparation of accreditation application for the CE program. I also prepared (wrote) the self-study report and all responses to program evaluators.

8. **Initial Accreditation of the Civil Engineering BSc Program by UAE Ministry of Higher Education**

(Commission for Academic Accreditation, CAA) of the Undergraduate and Graduate Civil Engineering Programs. Significant contributions to initial accreditation of BSCE and MSCE Programs at the University of Sharjah for the period 2004-2007.

9. **Accreditation of the BSc. Program by the Institution of Engineers, Australia (1998)**

Assisted in the preparations for the Accreditation of Civil Eng. Program at Queensland University of Technology, Brisbane, Australia.

10. **Accreditation of the M.S. Program in Biomedical Engineering:**

Co-coordinated the establishment of the committee responsible for preparing the accreditation documents, which was Formed by the Chancellor.

Development Of Course Assessment And QA System For CE Programs

Description	Year
Development of an Excel-Based Tool to Assess Achievement of CLO, Align T&L with CLO, and Demonstrate Achievement of SOs: The system is used by all faculty members in Department to assess alignment of courses with courses learning outcomes as well as program students' outcomes. The system is successfully used to compile assessment results demonstrating compliance with ABET & CAA accreditation requirements 2010-Present.	Used Every Semester by every faculty member

<p>Modification of Excel-Based Tool to Cover Assessment of PC & Sustainability and Uncertainty: Modified the excel tool to cover assessment of ABET PC, especially Sustainability and Uncertainty, 2017 - present.</p>	
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Academic Program Initiatives and Development Experience

1. Major Initiative: New MSc Program in Environmental Science and Technology (2016/2017 and Still On-Going)

Proposed this new Interdisciplinary MSc program between the colleges of Engineering, Sciences and Health Sciences, formed and supervised a committee to develop a feasibility study for the program, coordinated with senior administration and concerned deans to get proposal approved by BOT, and formed and supervised the program initial accreditation committee. Currently, the accreditation document has been submitted for approval.

2. Major Initiative: New MSc Program in Geographic Information Systems and Remote Sensing (2016/2017 and Still On-Going)

As director of Proposed this new Interdisciplinary MSc program between the colleges of Engineering and Sciences, formed and supervised a committee to develop a feasibility study for the program, coordinated with senior administration and concerned deans to get proposal approved by BOT, and formed and supervised the program initial accreditation committee. Currently, the accreditation document has been submitted for approval.

3. Major Initiative: New MSc Program in Biomedical Engineering (2017/2018 and Still On-Going)

Proposed this Interdisciplinary MSc program in collaboration with the RIMHS between the Colleges of Engineering, Sciences and Health and Medical Sciences. Jointly proposed and supervised a committee to develop a feasibility study for the program, coordinated with senior administration and concerned deans to get proposal approved by BOT, and jointly formed and currently supervising the program initial accreditation committee. Currently, the accreditation document is under preparation.

4. Significant Contributions to PhD Program in CE (2016/2017 & 2017/2018)

My contributions included the following:

- Lead the development of the Environmental Engineering track in the PhD program.
- Participating in all aspects of program development in the PhD program committee
- Provided critical contribution to designing a general framework for the PhD programs
- Provided critical contribution to adopting program objectives and learning outcomes
- Provided critical contributions to improving the overall quality of the PhD proposal

5. Initiated and Developed the Environmental Engineering Concentration within Civil Engineering (On-Going Concentration)

Initiated and developed the concentration, which allows students to focus their final year electives in the Environmental Engineering Area. Efforts also included developing and introducing many new courses in the concentration.

6. Significant Contributions to Development of the Current Civil Engineering Program (On-Going Program)

In addition to developing the environmental component of the program and its general framework, I lead the introduction of major modifications in the program to meet the first ABET accreditation requirements. These modifications included major issues, such as: adopting new program objectives and outcomes, adopting a QA system, developing and implementing a comprehensive assessment system, balancing technical and generic and professional outcomes, introducing new courses and dropping others, and alike. These structural changes are still in effect and formed the basis for subsequent CAA and ABET reaccreditation cycles.

7. Contributions to Restructuring the MSc Program in CE (2016/2017 & 2017/2018)

My contributions included the following:

- Reconsideration of courses and including proposal of new courses in the Environmental Specialization and coordinated those with the courses proposed for the new PhD program

- Participating in all aspects of program restructuring as member of the graduate committee
 - Provided critical contribution to adopting the framework of the MSc programs
 - Proposed new specialization in Sustainable Infrastructure in the MSc program
8. **Lead development of the MSc in Civil Engineering (Non-Thesis Option), which was offered between 2007 until 2013 to cater for the needs of professional, part-time students**
 9. **Lead major restructuring of the BSc Program in Civil Engineering to meet ABET requirements.**
 10. **Lead major restructuring of the MSc program to streamline the many specialization into two major tracks; structural systems and infrastructure systems**
 11. **Proposed establishment of Graduate Certificate and Graduate Diploma in Civil Engineering, with proposal approved at the Department and College levels then postponed by the University.**
 12. **Developed all graduate and undergraduate courses in the environmental engineering specialization in the BSc and MSc programs**
 13. **Developed and coordinated of the Environmental Engineering Major within Civil Engineering at Queensland University of Technology, Australia.**
 14. **Lead the development of an On-Line Teaching & Learning Database Resource titled "The Selby Resource Collection on Sustainable Development" at Queensland University of Technology, Australia.**
 15. **Involvement in major educational development projects funded by the European Union:**
 - Project 1: Promotion of Sustainable Development in Higher Education, which involved the following universities (Total Funding approx. 2,000,000 AED): University of Sharjah, UOS, United Arab Emirates, Addis Ababa University, AAU, Ethiopia; Anton de Kom Universiteit, UVS, Suriname; Kiev Polytechnic Institute, KPI, Ukraine; Royal Institute of Technology, KTH, Sweden; Sekem Development Foundation, SEKEM, Egypt; Technische Universiteit Delft, TU Delft, Netherlands; Universitat Politècnica de Catalunya, UPC, Spain; and Universiti Sains Malaysia, USM, Malaysia
 - Project 2: Quality Assurance in Engineering Education and Program Linkages, which involves other colleagues from the UoS, including the VCRGS. The project is a partnership between the following two universities (Total Funding: 600,000 AED) University of Sharjah, UOS, United Arab Emirates; and Royal Institute of Technology, KTH, Sweden.
 16. **Development of an Excel-Based Tool to Assess Achievement of CLO, Align T&L with CLO, and Demonstrate Achievement of SOs: The system is used by all faculty members in Department to assess alignment of courses with courses learning outcomes as well as program students' outcomes. The system is successfully used to compile assessment results demonstrating compliance with ABET & CAA accreditation requirements**
 17. **Modification of Excel-Based Tool to Cover Assessment of PC & Sustainability and Uncertainty: Modified the excel tool to cover assessment of ABET PC, especially Sustainability and Uncertainty**
 18. **Initiated and Lead the Development of the Current Civil Engineering Curriculum: The current Civil Engineering curricula is based on the major modifications introduced in preparation for CAA and ABET accreditation. Significant contributions to the development of the modified curricula to meet the CAA/ABET requirements were achieved**

Contributions to Development of Teaching & Learning	
Description	Year
Integration of Research into Teaching & Learning – University Level Lead a special university committee to investigate methods and develop plans to integrate research into teaching and learning. The work involved preparation of a report for consideration by senior administration. Furthermore, the report was presented to senior administration and to the university community in a special "UOS Education Forum", held on 25 April 2018.	2017/ 2018

Presentations on Teaching and Learning		
Presentation Title	Event	Dates
Integration of Research Into Teaching and Learning at UoS – Methods, Strategies and Future Plans	Deans' Council Vice Chancellor's Council Meetings of Various Committees 1st UoS Education Forum 25 April 2018	2018/2019 and 2017/2018

Publications on Teaching and Learning				
Type	Editors/Authors	Title	Publisher & Details	Date
Edited Book	Shanableh, Bettayeb, Omar, Hamad, Bettayeb	Advances in Engineering Education	University of Sharjah ISBN: 978-9948-24-127-0	2018
Conference Article	Omar, Hamad, Shanableh, Tahmaz	Efforts to Maximize the Success of Students on Probation	In: Edited Book-Advances in Engineering Education	2018

Courses Developed/Taught/Coordinated	University	Course Type
MSc Thesis Supervision	University of Sharjah	Graduate
Wastewater Treatment & Reuse		
Environmental Impact Assessment and Risk Analysis		
Unit Operations in Environmental Eng		
PhD Thesis	Queensland University of Technology	Graduate
MSc Thesis		
Waste Management		
Public Health Engineering Practice		
Advanced Wastewater Treatment		
Water Quality Engineering		
Studies in Environmental Engineering		
Graduate Project		
Unit Operations in Water and WW Treatment	University of Jordan	Graduate
Physio-Chemical Treat of Water and Waste		
Special Studies-Environ Impact Assessment		
Special Studies-Industrial Waste Management		
Introduction to Environmental Engineering	University of Sharjah	Under-graduate
Sustainable Design and Construction		
Environmental Friends and Volunteers		
Man and Environment		
Special Studies in Water Resources/Environmental Engineering		
Environmental Outreach Project		
Water Resources Engineering		

Courses Developed/Taught/Coordinated	University	Course Type
Hydraulic Engineering		
Fluid Mechanics		
Water and Wastewater Treatment		
Mechanics of Materials		
Senior Design Project - I		
Senior Design Project - II		
Individual Graduation Project		
Drinking Water Engineering	University of Jordan	Under-graduate
Wastewater Engineering		
Sanitary Systems Design		
Environmental Analysis Laboratory		
Final Year (Graduation) Project		
Environmental Science (Ecology, Microbiology, Chemistry)	Queensland University of Technology	Under-graduate
Environmental Technology		
Public Health Engineering I		
Public Health Engineering II		
Public Health Engineering II		
Professional Environmental Studies		
Water & wastewater Systems		
Civil Engineering Design (Senior)		
Environmental Engineering Design (senior)		
Waste Management		
Final Year (Graduation) Project		

New Courses Proposed	University	Course Type
Membrane and Desalination Technologies	University of Sharjah	PhD (Environmental)
Geo-Environmental Engineering		
Air Quality Engineering		
Remote Sensing for Environmental Monitoring		
Advanced Studies in Environmental Engineering		
Physiochemical Treatment Processes	University of Sharjah	MSc (Environmental)
Experimental Research in Environmental Engineering		
Sustainable Infrastructure Design and Construction	University of Sharjah	MSc (Infrastructure)
Assessment and Rehabilitation of Water and Wastewater Systems		
Senior Research Project Part 1 (1 Credit)	University of Sharjah	BSc (Civil Engineering)
Senior Research Project – Part 2 (2 Credits)		

Professional Training Courses Delivered

- ❑ Environmental Impact Assessment and Risk Analysis: Center for Continuing Education and Community Service, University of Sharjah.
- ❑ Project Management: Conducted through the Consultancies and Studies Center, University of Jordan.
- ❑ Indoor Air Pollution: Prepared for the World Health Organization Regional Office, Amman-Jordan.
- ❑ Design of Water Supply Systems: Prepared for the World Health Organization Regional Office, Amman-Jordan.
- ❑ Operation and Maintenance of Activated Sludge and Waste Stabilization Pond Systems. Prepared for the World Health Organization Regional Office, Amman-Jordan.
- ❑ Water supply Systems - Leakage Detection and Control. Prepared for the World Health Organization Regional Office, Amman-Jordan.
- ❑ Sustainable Operation and Maintenance of Rural Water Supply and Sanitation Systems. Prepared for the World Health Organization Regional Office, Amman-Jordan.

PROFESSIONAL ACTIVITY

Founding and Organization of International Forum on Engineering Education

I founded, with support from a few of my colleagues at UoS, the "International Forum on Engineering Education (IFEE)" in 2001 to bring together educators, researchers, students, professionals, employers, policy and decision makers and other stakeholders to contribute to the advancement and enrichment of engineering education, research and practice, especially in the middle east region. The IFEE was also intended to promote engineering education as an area of scholarship in the region.

Six of the past seven IFEE events were hosted by the University of Sharjah in the UAE and one was hosted by the National University of Malaysia in Kuala Lumpur in 2012. The past IFEE events were organized under the following themes:

- ❑ 1st IFEE: The Changing Role of Engineering Education in the Information
- ❑ 2nd IFEE: Generic Attributes in Undergraduate Engineering Education - Issues and Development.
- ❑ 3rd IFEE: Building Partnership with Government, Industry & Society.
- ❑ 4th IFEE: Integration of Teaching and Research with Community Service.
- ❑ 5th IFEE: Engineering Education in the 21st Century - Quality, Globalization and Local Relevance. The IFEE2010 was held jointly with the European SDPromo Conference on Sustainability in Higher Education.
- ❑ 6th IFEE: Collaborative Approaches in Science, Built Environment and Engineering Education, Research and Practice. Kuala Lumpur, Malaysia
- ❑ 7th IFEE: Quality Assurance in Engineering Education. Jointly with the 3rd International Conference: "Towards Sustainable Development - Sustainability in Built Environment and Engineering Education, Research and Practice". 17-19 March, 2015, Sharjah, United Arab Emirates
- ❑ 8th IFEE: (Announced for April 2017): Advances in Engineering Education, UoS, Sharjah, UAE.

Founding and Organization of International Conference Towards Sustainable Development

In 2010, I launched the "Towards Sustainable Development" conference as a joint event with the International Forum on Engineering Education. So far, three TSCIC were held jointly with the International Forum on Engineering Education, and the 4th has been announced, as follows:

- ❑ 1st ICTSD2010 "European SDPromo Conference on Sustainability in Higher Education".
- ❑ 2nd ICTSD2012 "Sustainability in Built Environment and Engineering Education, Research and Practice".
- ❑ 3rd ICTSD2015 "Sustainability in Built Environment and Engineering Education, Research and Practice".
- ❑ 4th ICTSD2017 (Announced for April 2017) "Educating Engineers for Sustainability".

Other Professional Conference and Events Organized/Being Planned

1. International Conference on Sustainable Development, "Shaping the Sustainable Millennium-- Collaborative Approaches", 5-7 July 2000, Brisbane, Australia.
2. International Conference on "Water - Resources, Technologies and Management in the Arab World", 8-10 May 2005, Sharjah, United Arab Emirates
3. International Symposia, "Seismology & Earthquakes in the Arabian Gulf", 2-4 February 2004, Sharjah, United Arab Emirates.
4. International Symposia on "Water Desalination & Purification Technology Outlook for the Arab World", 29 May-1 June, 2004, Marrakech, Morocco (Jointly between the University of Sharjah and the Arab Science and Technology Foundation).

5. Internal Research Group Forum, as part of the 1st and 2nd Annual University Research Forums (2005 and 2006).
6. ASCMCES2017 (Announced for 2017): International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems.
7. 8th International Forum on Engineering Education (IFEE2017), Jointly with the 4th International Conference Towards Sustainable Development (ICTSD), 18-20 April 2017
8. 4th International Conference Towards Sustainable Development (ICTSD), 18-20 April 2017

UOS COLLABORATION AGREEMENTS INITIATED/NEGOTIATED/UNDER DEVELOPMENT

Through the years and with approval of senior administration, I have initiated and negotiated a number of collaboration agreements. Below is a summary of these organizations:

SN	Title	Type	Nature of Agreement	Date
1.	Environment and Protected Areas Authority, Sharjah Government	MOU	Collaboration in the Area of Environmental Protection in Sharjah. Specific Projects included: remediation of the Sharjah Old landfill; Integrated Solid waste Management System for Sharjah; and Water Quality Monitoring in the Coastal Areas.	2004
2.	Incorporated Research Institutions for Seismology, USA and University of California at San Diego, USA	MoU	Agreement to Jointly Operate the University of Sharjah Seismic Station (UOSS) at Wadi Al-Helo as part of the Global Seismographic Network (GSN)	2005
3.	Sharjah Research Academy, Sharjah, UAE	Collaboration and Joint Project	Collaboration and Joint Project	2016
4.	Mohammed Bin Rashid Space Center, Dubai, UAE	MoU	Joint Research, Training, Employment of Grads: Assessment of Dubai Historical Expansion Using GIS & RS	2015
5.	Vlaamse Instelling Voor Technologisch Onderzoek (VITO), Belgium	MoU	Joint Research Collaboration: Extraction of useful resources from local biomass Air pollution from transportation facilities	2018
6.	National Center of Meteorology & Seismology, UAE	MoU	Joint Research, Training and Studies in the Areas of water Resources and Earthquake Science and Engineering	2016

SN	Title	Type	Nature of Agreement	Date
7.	Desert Research Institute, USA	Collaboration and Joint Project	Collaboration and Joint Project	2016
8.	University of California at San Diego, USA	MoU	Agreement to Jointly Establish the University of Sharjah Seismic Station (UOSS) at Wadi Al-Helo	2005
9.	Renewable Energy Research Center, Algeria	MoU	Joint Research and Studies	TBC
10.	Oulu University of Applied Sciences, Finland	MoU	Research Students and Faculty Exchange The agreement encourages exchange of students, exchange of academic staff members, development of collaborative educational programs and development of collaborative research.	2017
11.	Lulea University of Technology, Sweden	Letter of Intent	This agreement is concerned with mutual activities through joint faculty development programs, development of joint programs, joint research projects, joint supervision of PhD and MSc students, joint research publications, joint professional events and exchange of faculty members and students.	2017
12.	Arizona State University (ASU), USA	MoU	Heat island Effect in Sharjah Bio-dust control The aim of the agreement is to explore possibilities for controlling dust emissions under local conditions using an innovative process, which involves enzyme induced calcite precipitation. The process combines scientific knowledge from different disciplines, including chemistry, biotechnology and environment to provide a practical solution to a common problem.	2018
13.	M/S ENOVA & M/S DryWired ME Green Tech	Collaboration and Joint Project	The main areas covered under the agreement include measurement of the performance of the solar	2017

SN	Title	Type	Nature of Agreement	Date
			panels and the dust accumulation on the panels with and without surface treatment.	
14.	Sharjah Municipality, UAE	MoU	This collaboration opens the doors for research and development activities that benefits the community of Sharjah city, as well as the obligation of Sharjah Municipality to train students on professional practices in the areas of civil and architectural engineering.	2017
15.	Dubai Electronic Security Center, Dubai, UAE	MoU	The main aim of the MoU is to investigate the security and privacy issues of Internet of things (IoT) and Blockchain technology, increase the awareness by conducting workshops and seminars.	2017
16.	University of Dubai, UAE	MoU	The agreement calls for exchange of researchers and scientific knowledge to conduct jointly funded research projects. The impact of this cooperation is on the development and promotion of innovation, creativity and scientific research excellence in the country.	2018
17.	Emirates National Bank Dubai, UAE	MoU	The main aim of the MoU is to raise awareness and provide new opportunities for training, research and development in Internet of things, cyber security, cloud computing, data science, open source software, and other technological innovations.	2018
18.	Telecommunications Regulatory Authority, UAE	MoU	To raise awareness about open source software (OSS) solutions in the country and to provide new opportunities for training, research and development of information and communication technologies solutions.	2017

SN	Title	Type	Nature of Agreement	Date
19.	Qatra Company, UAE	Collaboration and Joint Project	Collaboration and Joint Projects	2019
20.	Dubai Taxi, UAE	MoU	Collaboration and Joint Projects	2018
21.	International Center for Biosaline Agriculture (ICBA), UAE	MoU	Collaboration and Joint Projects	2019
22.	Roads & Transport Authority Dubai, UAE	MoU	Collaboration and Joint Projects	2019
23.	Ministry of Infrastructure Development, UAE	Collaboration and Joint Project	Collaboration and Joint Project	2019
24.	Dubai Air Navigation Services, UAE	MoU		2019
25.	Sharjah Institute of Heritage	MoU	Joint Research Projects	2019
26.	Dubai Municipality	MoU:	Future-X Research Innovation Program	In progress
27.	Royal Institute of Technology, Sweden	MOU	Collaboration in the areas of education, research, joint programs, and exchange of faculty and students.	Being Negotiated
28.	Ajman Municipality	MOU	Collaboration in the area of infrastructure development and maintenance and GIS-based data exchange.	Under Development
29.	Sharjah Department of Civil Aviation	MOU		2020
30.	UAE Society of Engineers	MOU		2020
31.	Al Jalila Foundation	MOU		2020
32.	Joint UoS - German Scientific for SAGAR (University of Sharjah – German Artificial Intelligence) Research Collaboration	MOU		2021

Other Involvement in Developing Collaboration with external Organizations, including: Sharjah Electricity & water Authority; Desert Research Institute; and Sharjah Research Academy

Service in Joint University/Community Activities		
Event Title and Date	Organization	Dates
1. Coordinator – SEWA Research Professor Chair and Related Projects and Activities	Sharjah Electricity & Water Authority	2016-present
2. Coordinator – Al Shukra Research Professor Chair and Related Projects and Activities	Al Shukra Research Chair	2016-present
3. University Representative with Sharjah Government Delegation to Visit Finland for the Sharjah Technology Park	Sharjah Executive Council	2017/2018
4. University Representative on a Number of Agreement with External Organizations	Dubai Municipality, National Center of	2015-Present

	Meteorology, Sharjah Research Academy, UCSD, ...	
5. UAE National Sustainability Research Committee, Chaired by H.E. Minister of Climate Change and Environment	Minister of Climate Change and Environment	2016-Present
6. Joint UoS-SRA-SM Research Project Steering Committee	Sharjah Research Academy, Sharjah Municipality	2017-Present
7. Joint UoS-SRA-Qatra Collaboration Committee	Sharjah Research Academy Qatra Company	2018-Present
8. KSA-UAE Coordination Council	Ministry of Climate Change	Nominated by University in 2019

International Research Students Exchange Program		
No	Description	Date
1.	Received and trained within RISE 27 Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2022/2023
2.	Received and trained within RISE 14 Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2021/2022
3.	Currently received and trained within RISE 1 MSc student, and receiving multiple other applications during the current period. The exchange program is hindered due to the current COVID-19 pandemic. Students are paid to work as research assistants for 3-6 Months.	2020/2021
4.	Received and trained within RISE 8 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2019/2020
5.	Received 19 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2018/2019
6.	Received 13 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2017/2018
7.	Received 10 MSc and PhD Students from around the world to work with Research Groups and Centers. Students are paid to work as research assistants for 3-6 Months.	2016/2017

Organization of Forums		
No	Description	Date
8.	6th RISE Research Forum: RISE Towards Research Impact and Sustainability	16/3/2023
9.	6th International Exchange Students' Research Forum	24/11/2022
10.	5th International Exchange Students' Research Forum	18/11/2021
11.	Progress of COVID-19 UOS Funded Research Projects.	10/6/2021
12.	University of Sharjah (UOS) & Sharjah Electricity, Water, and Gas Authority (SEWA) Collaboration Projects.	20/5/2021
13.	Sharjah Oasis for Technology and Innovation (SOTI)	1/4/2021

14.	4th International Exchange Students' Research Forum	2019/2020
15.	5th Sciences, Engineering & Computing & Informatics Research Centers & Groups' Forum: Research Centers of Excellence	18/6/2020
16.	4th Sciences and Engineering Research Groups Forum: Towards Innovation and Value Creation	21/4/2019
17.	3rd Sciences and Engineering Research Groups Forum - Research in Service of the Community	19/4/2018
18.	3rd International Exchange Students' Research Forum	2018/2019
19.	3rd Sciences and Engineering Research Groups Forum - Research in Service of the Community	19/4/2018
20.	2nd International Exchange Students' Research Forum: Building Bridges and Partnerships	2017/2018
21.	2nd Sciences and Engineering Research Groups Forum	9/4/2017
22.	1st Sciences and Engineering Research Groups Forum	9/3/2016
23.	1st International Exchange Students' Research Forum	2016/2017
24.	Joint Workshop - Interdisciplinary Collaboration – Medical & Health Sciences and Sciences & Engineering	13/4/2017

Organization of Workshops			
No	Organizer	Workshop Title	Date
1.	UOS-RISE	6th RISE Research Forum: RISE Towards Research Impact and Sustainability	16/3/2023
2.	UOS-RISE	6th International Exchange Students' Research Forum	24/11/2022
3.	UOS-RISE	5th International Exchange Students' Research Forum	18/11/2021
4.	UoS-RISE	Progress of COVID-19 UoS Funded Research Projects	10/6/2021
5.	UOS-SEWA-RISE	University of Sharjah (UoS) and Sharjah Electricity, Water, and Gas Authority (SEWA) Collaboration Projects	20/5/2021
6.	UOS	Sharjah Oasis for Technology and Innovation (SOTI)	1/4/2021
7.	UOS-RISE	4th International Exchange Students' Research Forum	2019/2020
8.	UOS-RISE	5th Sciences, Engineering & Computing & Informatics Research Centers & Groups' Forum: Research Centers of Excellence	18/6/2020
9.	UOS-RISE	4th Sciences and Engineering Research Groups Forum: Towards Innovation and Value Creation	21/4/2019
10.	UOS-RISE	3rd International Exchange Students' Research Forum	2018/2019
11.	UOS-RISE	3rd Sciences and Engineering Research Groups Forum - Research in Service of the Community	19/4/2018
12.	UOS-RISE	2nd International Exchange Students' Research Forum: Building Bridges and Partnerships	2017/2018

13.	Sustainable Construction Materials & Structural System Research Group	Workshop on Fiber Reinforced Concrete (FRC): Materials, Applications and Design Aspects	23/4/2018
14.	Sustainable Engineering Asset Management (SEAM) RG	A technical meeting on Triple-Helix Series of Projects (Air Traffic Management)	24 – 26/4/2018
15.	Sustainable Engineering Asset Management (SEAM) Research Group	Workshop: Sustainability in Operations and Maintenance Management	26-28/2/2017
16.	Functional Materials Research Group of RISE	The 1st Canada-UAE - Japan International Workshop on: Functional Materials	29-31/1/2017
17.	Research Institute of Sciences and Engineering (RISE)	Website Design Workshop for All RAs, GRAs and Lab Engineers	1/8/2016
18.	Center for Advanced materials research (CAMR) of RISE	Second Sharjah Regional Workshop on Computational Science and Engineering	11-13/12/2016

Organization of Seminars				
No	Entity	Seminar Title	Speaker(s)	Seminar Date
1.	Research Institute of Sciences and Engineering	1st Sciences and Engineering Research Groups Forum	Many Speakers	2015/16
2.	Research Institute of Sciences and Engineering	2nd Sciences and Engineering Research Groups Forum	Many Speakers	2016/17
3.	Research Institute of Sciences and Engineering	3rd Sciences and Engineering Research Groups Forum	Many Speakers	2017/18
4.	Research Institute of Sciences and Engineering	4th Sciences and Engineering Research Groups Forum	Many Speakers	2018/19
5.	Research Institute of Sciences and Engineering	5th Sciences and Engineering Research Groups Forum	Many Speakers	2019/2020
6.	Research Institute of Sciences and Engineering	1st International Exchange Students' Research Forum	Many Speakers	2016/17
7.	Research Institute of Sciences and Engineering	2nd International Exchange Students' Research Forum: Building Bridges and Partnerships	Many Speakers	2017/18
8.	Research Institute of Sciences and Engineering	3rd International Exchange Students' Research Forum	Many Speakers	2018/19
9.	Research Institute of Sciences and Engineering	4th International Exchange Students' Research Forum	Many Speakers	2019/2020
10.	Research Institute of Sciences and Engineering	2nd Technical Meeting: Managing unmanned aviation activities – Workshop	Many Speakers	2018/19

11.	Research Institute of Sciences and Engineering	Building Design for Extreme Loads: Blasts and Earthquakes - Workshop	Many Speakers	2018/19
12.	Research Institute of Sciences and Engineering	2nd SEAM Workshop: Sustainability in Operations and Maintenance Management: Advancement in Reliability and Quality Engineering - Workshop	Many Speakers	2018/19
13.	Research Institute of Sciences and Engineering	Entrepreneur Day at UoS - Workshop	Many Speakers	2018/19
14.	Research Institute of Sciences and Engineering	IEEE SS12 Competition: Age of Innovation 'Empathy to Engineering: Solutions for Macro Issues' - Workshop	Many Speakers	2017/18
15.	Research Institute of Sciences and Engineering	Open Source Workshop Series - Workshop	Many Speakers	2017/18
16.	Research Institute of Sciences and Engineering	Workshop on Blockchain - Workshop	Many Speakers	2017/18
17.	Research Institute of Sciences and Engineering	A technical meeting on Triple-Helix Series of Projects (Air Traffic Management) - Workshop	Many Speakers	2017/18
18.	Research Institute of Sciences and Engineering	Fiber Reinforced Concrete (FRC): Materials, Applications and Design Aspects - Workshop	Many Speakers	2017/18
19.	Research Institute of Sciences and Engineering	Recent Advances in Information Security (RAIS 2017) - Workshop	Many Speakers	2016/17
20.	Research Institute of Sciences and Engineering	Radiation Safety and Protection Training - Workshop	Many Speakers	2016/17
21.	Research Institute of Sciences and Engineering	Interdisciplinary Collaboration– Medical & Health Sciences and Sciences & Engineering - Workshop	Many Speakers	2016/17
22.	Research Institute of Sciences and Engineering	Sustainability in Operations and Maintenance Management: Challenges and Opportunities - Workshop	Many Speakers	2016/17
23.	Research Institute of Sciences and Engineering	Functional Materials: Synthesis, Characterizations and Applications – UAE-Canada - Japan Collaboration - Workshop	Many Speakers	2016/17
24.	Research Institute of Sciences and Engineering	2nd Regional Workshop on Computational Science and Engineering - Workshop	Many Speakers	2015/16

25.	Research Institute of Sciences and Engineering	Website Design - Workshop	Many Speakers	
26.	Research Institute of Sciences and Engineering	On the Constant-Phase Element for Time- and Frequency-Domain Characterization of Electric Double-Layer Capacitors	Dr. Anis Allagui	2018/19
27.	Research Institute of Sciences and Engineering	Low-cost NP-gap-film SERS nanostructures using graphene nanospacer	Dr. Di Zhang	2018/19
28.	Research Institute of Sciences and Engineering	Stability and decay rates of the Timoshenko and Bresse systems	Dr. Belkacem Said-Houari	2018/19
29.	Research Institute of Sciences and Engineering	Hydraulics Dam Safety: Example of an Algerian Dam	Prof. Tew-Fik Mahdi	2018/19
30.	Research Institute of Sciences and Engineering	Overview of Geophysical Methods and their applications in Geotechnical Engineering	Dr. Hamdan Hamdan	2018/19
31.	Research Institute of Sciences and Engineering	Nano Mechanical & Surface Characterization	Mr. Phillipe Kempe, Head of Product Line – TriTec, Switzerland & Dr. Ornov Maulik, Application Specialist at Anton Paar Middle East Technical Centre, Dubai	2018/19
32.	Research Institute of Sciences and Engineering	Elsevier Leading vision for scientific research, empowering researchers through network of science	Mr. Hesham Nassar, Regional Manager, Elsevier Engineering Solution	2018/19
33.	Research Institute of Sciences and Engineering	Condition Rating of Pavement Infrastructure using Theory of Evidence	Dr. Saleh Abu Dabous	2018/19
34.	Research Institute of Sciences and Engineering	When Herbal Drugs from UAE Natural Resources can be Superior Antimicrobial Drugs	Dr. Sameh Soliman	2018/19
35.	Research Institute of Sciences and Engineering	Bridging the gap between machine learning and computational intelligence		2018/19
36.	Research Institute of Sciences and Engineering	Buckling Restrained Braces: Concept, Applications, and Seismic Design Aspects	Dr. Zaid Al-Sadoon	2018/19

37.	Research Institute of Sciences and Engineering	Joint Frequency Offset and Channel Estimation for Two-way Relays in the Presence of Timing Offsets	Dr. Saeed Abdallah	2018/19
38.	Research Institute of Sciences and Engineering	How to Solve Engineering Problems by Using Knovel Database	Mr. Hesham Abdel Hamid Tawfik Nassar	2018/19
39.	Research Institute of Sciences and Engineering	The valuation of new-product introduction strategies Seminar	Prof. Mohamed Ismail, Ryerson University.	29 Apr. 2018
40.	RISE Center for Advanced Materials Research	Development of Advanced Semiconductor Materials and Devices	Prof. Mohamed Henini, Nottingham Nanotech Center	27 Mar. 2018
41.	Research Institute of Sciences and Engineering	A Vision-Based Kinematic Tracking Control System For Differential Wheeled Mobile Robot	Eng. Mohammed Baziyad	18 Mar. 2018
42.	Research Institute of Sciences and Engineering	Global Optimization Techniques and their Applications to Transistors Modeling Seminar	Dr. Anwar Jarndal	11 Mar. 2018
43.	Research Institute of Sciences and Engineering	Neutron Thermalization in Uranium Mono-Nitride Seminar: A Potential Fuel Candidate for Light Water Reactors	Dr. Iyad Al-Qasir	25 Feb. 2018
44.	Research Institute of Sciences and Engineering	Performance Enhancement of an Automotive Radiator using Metal Oxide based Nanofluids Seminar	Dr. Zafar Said, Sustainable Energy Development Research Group	15 Feb 2018
45.	Research Institute of Sciences and Engineering	Analysis of PR-V-BLAST Receiver for Massive MIMO under Correlated Channel Seminar	Dr. Khawla Al Najjar	1 Feb. 2018
46.	Research Institute of Sciences and Engineering	Bio-mediated & Bio-inspired Geotechnics Seminar	Prof. Edward Kavazanjian, Arizona State University, USA	1 Feb. 2018
47.	Sustainable Energy Development RG	Materials Selection and the Environment Seminar	Dr. Claes Fredriksson & Dr. Sami Daouk	15 January. 2018
48.	RISE Center for Advanced Materials Research	My Journey to Stockholm Seminar	Nobel Laureate Prof. Sir Fraser Stoddart	6 Dec. 2017
49.	RISE Center for Advanced Materials Research	From Concept (Lab) to Production (Fab) Seminar: Nano-Technology Research,	Dr. Youssri Botros	5 Dec. 2017

		Development, and Manufacturing		
50.	RISE Center for Advanced Materials Research	Emergent Applications in Nanoscience and Supramolecular Chemistry Seminar	Nobel Laureate Prof. Sir Fraser Stoddart	5-6 Dec. 2017
51.	Sustainable Engineering Asset Management Research Group	Sharjah, the Heart of Industry Seminar	Eng. Mohammad Bin Ali, Director of Excellence, SEWA	30 Oct. 2017
52.	Sustainable Construction Materials & Structural System Research Group	3D Printing and its Application in Construction Industry Seminar	Mr. Zhu Jianchao & Mr. Mansour Faried	29 Oct. 2017
53.	Research Institute of Sciences and Engineering	Sensor Development and Modeling of Manufacturing Processes related to Jet Engines & Turbochargers Seminar	Prof. Jay S Gunasekera	29 Oct. 2017
54.	Research Institute of Sciences and Engineering	RISE Training Program	Multiple sessions and many speakers	2019-present

LOCAL COMMUNITY SERVICE PROJECTS

1. Establishment of the University of Sharjah Seismic Station

(UOSS) at Wadi- Al Helo (a location proposed and allocated by His Highness the Ruler of Sharjah) as part of the Global Seismographic Network (GSN). This initiative resulted through contacts with colleagues at the University of California at San Diego (UCSD). The project gained support from the University and from His Highness and included the UoS a member of an international consortium of universities and organizations collaborating on seismology. It also put Sharjah on the scientific map for monitoring earth movements. The UOSS provides critical information to local and international researchers and scientific organizations dealing with earthquake hazards and provides information to help speed up help to areas most affected by earthquakes. Likewise, the data is made available to the Indian Ocean Tsunami Warning Centers to help issue a tsunami warning to countries near the Indian Ocean.

2. Remediation of the Old Sharjah Waste Disposal Site

Initiated this project upon joining the university to solve a major environmental problem next to the University of Sharjah. This work was coordinated with the Environmental Authority and with the Sharjah Municipality. In response, the Executive Council of the Government of Sharjah formed a joint University-Government Higher Committee for Waste Management in Sharjah (in which I served as a member representing the Chancellor) to oversee the process. I then formed and lead a team which studied the site and issued recommendations to His Highness the Ruler of Sharjah and to the Government of Sharjah and the main recommendation to clean and rehabilitate the site was accepted and is being implemented.

3. Integrated Waste Management System for Sharjah City

This work was commissioned by the Higher Committee for Waste Management in Sharjah in 2001. The work, which I lead with a team from the UoS and the Environment Authority, involved assessment of existing waste management practices and infrastructure in Sharjah, conducting remedial investigations of two major contaminated sites, identification of needed facilities, infrastructure, and training, preliminary design of facilities, preparing contract documents, and pre-qualifying consultants and contractors.

4. Establishment of the Sharjah Coastal Areas Management Program

This program was developed jointly with the Environment and Protected Areas Authority in Sharjah in 2000. The program was formalized through signing a Memorandum of Understanding (MoU) between the Environment and Protected Areas Authority and the University. The work involved routine monitoring and reporting on water quality in the Coastal Areas in Sharjah and issuing appropriate recommendations to manage the water quality and sediments, especially in Khalid and Al-Khan coastal lagoons.

BRIEF DESCRIPTION OF SELECTED PROFESSIONAL EXPERIENCE

1. Senior Environmental Engineer, Engineering-Science, Inc., Houston, USA (1990-1992)

This professional appointment involved work on a wide range of projects. Main project experience involved design of a U\$35 Million wastewater treatment plant for a petrochemical industry. The work also included pollution prevention studies, waste minimization studies, and toxicity reduction studies. The work involved field investigation of various environmental problems, contaminated site remediation feasibility studies, contaminated groundwater treatment studies, design of pipes and hydraulic structures, field survey work, wastewater treatability studies, field sampling and analysis, and property transfer studies. The work involved project, budget and team management, marketing, preparing reports and budgets, presentations to clients and client liaison.

2. **Project Coordinator “Water Desalination & Purification Technology Outlook for the Arab World”, Arab Science & Technology Foundation (2004-2005)**

This is a pan-Arab project involving developing a roadmap for Water Desalination & Purification Technologies targeting effective involvement and participation of Arab Research Organizations and Businesses in international efforts focused on developing such technologies. The project has received funding and support from various Arab government and non-government organizations who nominated over 150 experts to participate in the project.

3. **Investigation and Supervision of Remediation of the Sharjah Old Landfill (2001-2006)**

Initiated this project upon arrival at the UOS to solve a major environmental problem next to the University of Sharjah. This work was coordinated with the Environmental Authority and The Sharjah Municipality. In response, the Executive Council of the Government of Sharjah formed a joint University-Government Higher Committee for Waste Management in Sharjah to oversee the process. I then formed and lead a team which studied the site and issued recommendations to His Highness the Ruler of Sharjah and to the Government of Sharjah and the main recommendation to clean and rehabilitate the site was accepted and is being implemented with a total cost of more than AED100 Million.

4. **Development of Integrated Waste Management System for Sharjah (2001-2006)**

This work was commissioned by the Higher Committee for Waste Management in Sharjah in 2001. The work involved assessment of existing waste management practices and infrastructure in Sharjah, remedial investigation of two contaminated sites, identification of needed facilities, infrastructure, and training, preliminary design of facilities, preparing contract documents, selection of consultants and contractors, and supervision of field work.

5. **Water Quality Monitoring & Management of Coastal Areas in Sharjah (2000-2006)**

This project was developed jointly with the Environment and Protected Areas Authority in Sharjah in 2000. The program was formalized through signing a Memorandum of Understanding (MoU) between the Government and University. The work involved routine monitoring and reporting on water quality in the Coastal Areas in Sharjah and issuing appropriate recommendations to manage the water quality and sediments.

6. **Potential for Development of Eco-Industrial Parks in South East Queensland (1999-2001)**

This project was funded by and involved a consortium of government and private organizations, including: (1) Queensland Environmental Protection Agency; (2) Queensland Department of Economic Development and Trade; (3) Queensland Department of Tourism, Small Business and Industry; (4) The Australian Research Council; (5) Brisbane City Council; (6) Caboolture City Council; (7) Ipswich City Council, and (8) the Australian Research Council. The project aimed at developing a policy framework for encouraging sustainable industrial development and industry guidelines for planning industrial zones, pollution prevention and control, waste minimization, waste exchange, life cycle analysis, and environmental management. Significant achievements were made, including two massive surveys of industrial parks in South East Queensland.

7. **WHO Appropriate Technology for Water Supply and Sanitation for Jordan (1992/1993)**

This consulting project involved a country study and was funded by the World Health Organisation (WHO). The project involved work with various government departments in Jordan and involved a survey of the country's situation in regards to water supply and sanitation programs, including issues such as legislation, organizational structure, need of institutional build-up and training, health education, and community involvement and awareness building. The study also involved developing selection criteria for appropriate technologies and identifying a range of appropriate technologies and operational strategies. The findings of the study were summarized in the following report: Shanableh, A (1993) "Appropriate Technology for Water Supply and Sanitation for Jordan". Report submitted to the WHO, Regional Office for the Mediterranean.

8. **Sustainable Residential Development-Guidelines and Applications (1998-2000)**

This project was funded by Queensland University of Technology and supported, in kind, by Brisbane City Council. The project involved developing a residential development at a site nominated by Brisbane City Council in Brisbane to demonstrate the concepts and practice of Ecologically Sustainable Developments. The following criteria were considered in the design: site constraints and potential; need for project; subdivision design issues; housing design, materials, appliances, and landscaping issues; energy management issues; transportation issues; water and wastewater management issues; storm water management issues; solid waste management issues; marketing issues; and education & community participation issues. These issues were considered in the context of achieving the objectives of sustainability.

9. **Water Supply and Sanitation for Vietnamese Fishing Villages (1999)**

This project was conducted in Australia and Vietnam. The project was funded by Australia's Aid Agency (Aus-Aid), a grant from the Queensland University of Technology, and generous private donations. The project also involved the Australian Veterans Vietnam Reconstruction Group (AVVRG, NGO) and the Australian Diplomatic mission in Vietnam. This project involved providing water supply and sanitation facilities at selected fishing villages in southern Vietnam, training on proper fish farming practices to maintain water quality and increase production, and conducting , and conducting public health education programs for children, women, men, and community leaders. As a result, there are thousands of villagers benefiting from the water supply, sanitation facilities provided and the educational programs.

10. **Case Studies on Sustainable Development for Business and Industry (1996)**

This project was funded by Queensland Department of Tourism, Small Business and Industry and involved developing case studies to help Queensland business and industry meet the Australian Strategy on Ecologically Sustainable Development. The case studies were widely publicized and summarized in the following report: Shanableh, A (1996) "Case Studies on Sustainable development for Business & Industry". Report Submitted to Queensland Department of Tourism, Small Business and Industry.

11. **Appropriate Technology for Sanitation in Remote Aboriginal Communities (1999)**

This project was setup as a graduate project and was supported by OVERUP, a local engineering consultant. Using field investigations and surveys, the study considered how the unique culture and natural and built environment characteristics of remote Aboriginal communities affected the need, selection, design, and maintenance of sanitation systems. The study emphasized: (1) the selection and design of technology that is compatible with the community's culture and environment; (2) the need for good communication between the community and the technical experts; and (3) the importance of involving the community in the various aspects/phases of the project.

Major Service Initiatives and Responsibilities at University Level		
Item	Role	Description & Benefits
UAE Advanced Sciences Agenda 2031	Main contributor in reviewing and recommending the addition of UoS in the 2031 Agenda. Addition of revised UoS input for the 2031 Agenda along with other members	Incorporation of UoS in the UAE Advanced Sciences Agenda 2031, due to they can have an important role and can lead many contributions to the Agenda.
Establishment of the UoS Campus Sustainability Committee	Personal Initiative Selected Committee members Prepared Decision by VCRGS Guided/Supervised Committee	University won Sustainability Awards from Dubai and Sharjah University ranked High in International Sustainable Campus Ranking
Major Contribution to Development of New Faculty Evaluation System	Initiative Presented to Chancellor, who Formed a Committee to Develop the System. Played leading Role in Committee, which effectively endorsed initiative with some modifications.	Benefits all faculty members at the University and Unifies and simplifies work of evaluators.
Major Software (Product) Development and Upgrade (Online Faculty Performance Submission & Evaluation System)	Major and Direct Responsibility. Managed the Project, Defined System Requirement, Designed its Flow & Architecture, and tested it to Ensure it Met Requirements.	Major Online Software used by all Faculty Members, Department Chairs and College Deans.
Major Software (Product) Development (Online Faculty Promotion Submission & Evaluation System)	Major and Direct Responsibility. Managed the Project, Defined System Requirement, Designed its Flow & Architecture, and tested it to Ensure it Met Requirements.	Major Online Software used to be launched in 2019/2020 Insha'a Allah.
Update of University Research Guidelines	Leader of Tasks and member of committees	University system and all researchers at the University

Joint Projects with the Community			
Project Title	Community Benefits	Organizations	Dates
Using Recycled Plastic in Asphalt Pavements in the UAE	Dr. Waleed Zeiada Dr.Ghazi Al-Khateeb Prof. Abdallah Shanableh Eng. Helal Ezzat	Ministry of Energy and Infrastructure	2020/21 - present
Effect of Waste Oils on the Rheological Properties of Asphalt Binder in the UAE	Dr. Waleed Zeiada Dr.Ghazi Al-Khateeb Prof. Abdallah Shanableh Eng. Helal Ezzat	Ministry of Energy and Infrastructure	2020/21 - present
Impact of COVID-19 Lockdown on Air Quality in the UAE	Documentation of Epidemic Impact	University of Sharjah	2020
Pilot Scale Testing of AKVO Atmospheric Water Generator	Water Generation System for Potential applications in remote areas	Sharjah Electricity and Water Authority	2017/2018
Removal of Emerging Contaminants Affecting Wastewater Reuse In the Emirate of Sharjah - Phase II	Protection of Human Health & the Environment	Sharjah Research Academy	2019/20 - present

Seismic Hazard Assessment in the UAE	Utilization of Data from the Center to Assess hazard and Help Reduce Risk	National Center of Meteorology & Seismology	2017-Present
Water Resources Assessment in the UAE	Utilization of Data from the Center to Assess resources and help develop integrated water management system	National Center of Meteorology & Seismology	2017-Present
Additional Treatment and Reuse of Effluents From Al-Saja'a Waste Water Treatment Plant (Final Stages of Agreement)	Reusing wastewater for beneficial purpose and protecting public health through efficient treatment	University of Sharjah Sharjah Research Academy Municipality of Sharjah	2017-Present
Emerging hazardous Contaminants in Wastewater Reuse in The Emirate of Sharjah	Identifying dangerous contaminants in wastewater reused for landscape irrigation	University of Sharjah Desert Res. Institute, USA Sharjah Research Academy, UAE	2016-Present
Biogas Production Potential from Manure Produced by Al-Rawabi Dairy Company	Providing waste management solution to Al-Rawabi Company	Al-Rawabi Dairy Company	2017-Present
Assessment of Groundwater Resources in Sharjah using Geographic Information System and Remote Sensing	Reducing water consumption in Sharjah and conserving water	Sharjah Electricity & water Authority	2016-Present
Evaluation and development of grey water reuse and policy development	Reducing water consumption and conserving water. Help establish a well-defined policy	Sharjah Electricity & water Authority	2016-Present
Hydrodynamic Modeling of Al-Hamrya Lagoon and Desalination Plant Intake	Solving a problem related to desalination plant intake operating below capacity	Sharjah Electricity & water Authority	2016-Present
Operation of the University of Sharjah Seismic Station	Provides Critical Information for Concerned national and International Organizations	UAE National Center for Meteorology and Seismology Indian Ocean Tsunami Early Warning Center International Scientific Community	2005-Present

Involvement in Projects in Collaboration with Government/Industry		
Entity	Projects	Dates
Ministry of Municipal Affairs, Agriculture & Livestock Department	Laboratory Experiments of Aerobic Fertilizer for Camel and Agriculture Residues	2021/22 - Present
Ministry of Energy and Infrastructure	Using Recycled Plastic in Asphalt Pavements in the UAE	2020/21 - present
	Effect of Waste Oils on the Rheological Properties of Asphalt Binder in the UAE	2020/21 - present
Sharjah Electricity & water Authority	Development of Greywater Reuse Policy and Procedures for Sharjah, UAE	2017/2018-Present
	Spatio-temporal Analysis of Groundwater Level and Quality in Sharjah, UAE	2017/2018-Present
	Circulation and Water Quality Modelling in and around the Al Hamriyah Lagoon	2018/2019-present

	Pilot Scale Testing of AKVO Atmospheric Water Generator	2018/2019-present
Sharjah Research Academy, UAE & Desert Research Institute, USA	Emerging Contaminants in Wastewater Reuse in The Emirate of Sharjah	2015/2016-present
University of Sharjah, Sharjah Research Academy & QATRA Company	Reuse of Treated Effluent from Al-Saja'a Wastewater Treatment Plant, Sharjah, UAE	2018/2019 to Present
Ministry of Infrastructure Development (MOID), University of Sharjah	Potential Impact of Climate Change on Materials Selection and Asphalt Pavement Performance in the UAE	2018/2019 to Present
	Potential Impact of Climate Change on Traffic Safety and Transportation System Performance in the UAE	2018/2019 to Present
Tube City IMS Emirates Steel Abu Dhabi City Municipality	Evaluation of Asphalt Mixtures with Steel Slag Aggregates Using Advanced Characterization Tests: Pilot Study at Musaffah Intersection, Abu-Dhabi	2018/2019 – present
Sharjah Research Academy, UAE	Reuse of Treated Effluent from Al-Saja'a Wastewater Treatment Plant, Sharjah, UAE	2018/2019 – present
Al-Rawabi Dairy Company	Biogas Production Potential from Manure Produced by Al-Rawabi Dairy Company	2016/2017 2017/2018
Innogy International Middle East	Experimental Analyses of Biogas Production from Anaerobic Digestion of Camel Farm Waste	2018/2019 – present
The Swedish Foundation for International Cooperation in Research and Higher Education	Quality Assurance in Engineering Education and Programs Linkages between University of Sharjah, UAE and Royal Institute of Technology, Sweden.	2015/2016 2016/2017
University of California at San Diego, UAE National Center for Meteorology and Seismology, Indian Ocean Tsunami Early Warning Center, International Scientific Community	Operation of the University of Sharjah Seismic Station - Provides Critical Information for Concerned national and International Organizations	2005-Present

SUPERVISION OF PhD STUDENTS

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
1.	Under Process	Eng. Samy Elhady	PhD	Expected 2026	University of Sharjah
2.	Hydrothermal Production of VFAs from Sewage Sludge to Support Biological Nutrient Removal	Dr. Samir Jomaa	PhD	2001	Queensland University of Technology
3.	Nitrogen and Phosphorus Transformations in Biofilters Subjected to Aeration/Non-Aeration Cycles	Dr. Amal Hijazi	PhD	1998	
4.	Decontamination of Biosolids for Land Application	Dr. Pushpa Ginige	PhD	1998	
5.	Application of Biofilm Reactors for Biological Nutrients Removal in Aquaculture	Dr. Dilrika Abeysinghe	PhD	1995	
6.	2 PhD Student in UK				
7.	1 PhD student in Malaysia				

SUPERVISION OF MASTER STUDENTS (RESEARCH ONLY)

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
8.	Hydrothermal Decomposition and Oxidation of the Organic Component of Dairy, Wood and Sludge Waste Streams and Treatment Impacts on Anaerobic Gas Production	Mr. Wael Khalil	MEng	2001	Queensland University of Technology
9.	Risk-Based Approach to Managing Hazardous and Non-Hazardous Freight	Mr. Yu Sun	MEng	2002	
10.	Potential for the Development of Eco-Industrial Parks in South East Queensland	Mr. Faran Rahmanian	MEng	2002	

SUPERVISION OF MASTER STUDENTS

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
11.		Rawan Zannerni	MSc	Graduated Spring 2022/23	University of Sharjah
12.		Wedad Masoud	MSc	Graduated Spring 2022/23	University of Sharjah
13.	Land Use and Land Cover and Climate Variables To Assess NO ₂ Spatial-Temporal Variation / North UAE	Fatima Alkindi	MSc	Graduated Spring 2022/23	University of Sharjah
14.	Drought Assessment and Monitoring Based on Satellite imagery and Geographic Weighted Regression / North UAE	Halima Alkindi	MSc	Graduated Spring 2022/23	University of Sharjah
15.	Spatiotemporal Analysis of Ambient Air Quality in the UAE using Ground-Based Observations and Satellite Images	Inas Khalifa	MSc	Graduated Spring 2022/23	University of Sharjah
16.	The Impact of COVID-19 on UAE's Mobility: Short- and Long-Term Assessment	Yehya Altrabelsi	MSc	Graduated Spring 2022/23	University of Sharjah
17.	Satellite Observations and Spatial Regression to Assess Land Surface Temperature at Different Land Use Land Cover	Naseeb Talal	MSc	Graduated Spring 2022/23	University of Sharjah
18.	Green Synthesis of Iron Nano-particles Using Date Seeds Extract and its Potential for Heavy Metals Removal	Fatimeh Farwah	MSc	Graduated Spring 20/21	University of Sharjah
19.	Groundwater Quality Index	Naseraldin Fayez Kayemah	MSc	Graduated Fall 20/21	University of Sharjah

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
20.	Investigating the Effect of the Chemical Composition of Substrates on the Performance of Bio-electrochemical Anaerobic Digestion	Ahmad Ghassan Shabib	MSc	Graduated Spring 19/20	University of Sharjah
21.	Appropriate Greywater Treatment Technologies For Sharjah	Adel Tayara	MSc Thesis	Graduated Fall 20/21	University of Sharjah
22.	Removal of Selected Pharmaceutical Compounds from Water Using Nanomaterials	Sama Alani	MSc Thesis	Graduated Fall 19/20	
23.	Dust Control Using Enzyme Mediated Reactions	Ramy Jehad Hafez	MSc Thesis	Graduated Fall 19/20	
24.	Wastewater Treatment Using nanoclays	Ghadeer AlKhyat	MSc Thesis	Graduated Spring 17/18	
25.	Spatio-Temporal Analysis of Urban Growth and its Impact on Surface Runoff in the City of Ajman/UAE	Zalfa Abdallah Boharoun	MSc Thesis Co-Supervisor with Dr. Rami Al-Ruzouq	Graduated 2017/2018	
26.	Experimental Analyses and Comparative Life Cycle Assessment of Select Dairy Waste Management Technologies	Mohamad Kamil Adghim	MSc Thesis Co-Supervisor with Dr. Mohamed Abdallah	Graduated 2017/2018	
27.	Hydrodynamic and Water Quality Modeling of Sharjah Coastline	Ahmed Aboukwik	MSc Thesis Co-supervisor with Dr. Mohsin Siddique	Graduated 2016/2017	
28.	Biofuel Generation from Locally Grown Algae	Nuha Adam	MSc Thesis	Graduated 2016/2017	
29.	Geotechnical Mapping of seismic risk of Sharjah City, United Arab Emirates	Samar Ibrahim	MSc Thesis Co-Supervisor with Dr. Maher Omar	Graduated 2015/2016	
30.	Modeling and mapping Traffic Noise in Sharjah, UAE	Mohammed Khalil	MSc Thesis	Graduated 2015/2016	
31.	Impact of Date Palm Seed on Biogas Production from Sewage Sludge	Wameed Radeef	MSc Thesis	Graduated 2014/2015	
32.	Phosphorus Removal from Water Using Modified Clays	Ghada Enshasi	MSc Thesis	Graduated 2014/2015	
33.	A Framework for Transportation of Hazardous Materials Using Fuzzy Logic	Rulla Saad	MSc Thesis	Graduated 2014/2015	
34.	Multi-Objective Risk-Based Traffic Routing	Iyad Shanoun	MSc Thesis	Graduated 2013/2014	

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
35.	Strength of Sedimentary Rocks in United Arab Emirates	Hussein Saleh	MSc Thesis	Graduated 2013/2014	
36.	Impact of Sonication on Biogas Production from Locally Available Organic Feedstock	Omar Habouch	MSc Thesis	Graduated 2012	
37.	A Framework for Seismic Fragility Assessment of Model Buildings in Sharjah, UAE	Khadder Abu-Dagga	MSc Thesis	Graduated 2009	
38.	Recycling of Demolition Waste- A Study from Abu Dhabi, United Arab Emirates	Basil Amer	Research Project	Graduated 2011	
39.	Improving Manpower Productivity in Construction by Using a Scheduled Lump Sum Overtime Hours	Khalid Alhaj Hamed	Research Project	Graduated 2010	
40.	Modification of the Swelling Characteristics and Phosphorus Retention of Bentonite Clay Using Alum	Marwan El-Fatih	Research Project	Graduated 2007	
41.	Influence of Local Soil Conditions on Ground Response During Earthquakes (Co-Supervisor)	Mohsin Balwan	Research Project	Graduated 2007	
42.	Wastewater Treatment and Nutrient Removal in a Fixed Film System	Mr. Ziad Qarri	MEngSc	Graduated 2000	Queensland University of Technology
43.	A Study of the Effects of Cycle Duration on the Nutrients Removal in a Fixed Film System	Mr. Hans Dalen	MEngSc	Graduated 2000	
44.	Hydrothermal Destruction of Sludge, Milk and Wood Wastes	Brendan Trebilco	MEngSc	Graduated 2000	
45.	Risk Assessment of Road Based Dangerous Goods Transport	Mr. Joseph Mendis	MEngSc	Graduated 2000	
46.	Water Quality Due to Road Construction – Case Study on the Pacific Motorway (Logan Motorway to Pappas Way, Neragng, Qld)	Mr. Trevor Sullivan	MEngSc	Graduated 1999	
47.	Advanced Wastewater Treatment – Biofilter Performance and Other Fixed Film Systems	Mr. John Bower	MEngSc	Graduated 1999	
48.	A Review of Performance, Efficiency and Maintenance Requirements for Brisbane City Council Gross Pollutant Devices	Mr. John Kakourakis	MEngSc	Graduated 1998	
49.	The Effect of Proposed Legislation on the Generation of Clinical and Related Waste in Tertiary Health Care Facilities in Queensland	Miss Sarah Fenaughty	MEngSc	Graduated 1998	
50.	Effluent Reuse for Irrigation in Boonah Shire	Mr. John Harris	MEngSc	Graduated 1998	
51.	Appropriate Sewage Sludge Disposal Options for Local Governments in Southeast Qld	Mr. Parma Nand	MEngSc	Graduated 1997	

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
52.	Water Quality Modeling within Potable Water Distribution Systems	Miss Nicole Davies	MEngSc	Graduated 1997	
53.	Phosphorus Removal in Biological Nitrogen Removal Wastewater Treatment Plant in Carole Park	Mr. Jay Tennakoon	MEngSc	Graduated 1997	
54.	Optimization of Water Supply Focusing on the Incorporation of Energy Management into Planning, Design and Operation	Mr. Mario Brischetto	MEngSc	Graduated 1996	
55.	Use of Wetlands as a Storm Water Management System	Mr. Darryl Hayter	MEngSc	Graduated 1995	
56.	Appropriate Sanitation Technologies for Remote Aboriginal Communities	Kirsten Bell	MEngSc	Graduated 1995	

GRANTS AND FUNDING

SN	Project Title	Investigators from UoS	Funding Amount	Source of Funding	Dates
1.	Using Recycled Plastic in Asphalt Pavements in the UAE	Dr. Waleed Zeiada Dr. Ghazi Al-Khateeb Prof. Abdallah Shanableh Eng. Helal Ezzat	300,000 AED	Ministry of Energy and Infrastructure	2020/21 - present
2.	Effect of Waste Oils on the Rheological Properties of Asphalt Binder in the UAE	Dr. Waleed Zeiada Dr. Ghazi Al-Khateeb Prof. Abdallah Shanableh Eng. Helal Ezzat	100,000 AED	Ministry of Energy and Infrastructure	2020/21 - present
3.	Uptake of Selected Pharmaceuticals by plants in a controlled Laboratory Setting	Prof. Abdallah Shanableh Prof. Ali El Keblawy Dr. Kareem Mosa Dr. Mohammed Harb Dr. Lucy Semerjian Dr. Abdulla Al Mutery Dr. Zarreen Badar Eng. Noora Darwish	79,000 AED	UoS	2020/21

4.	Impact of COVID-19 Lockdown on Air Quality in the UAE	Prof. Abdallah Shanableh (PI), Rami AlRuzouq, Khaled Hamad, et al.	230,000 AED	UoS	2020/2021
5.	The COVID-19 and Swift Transition to the Virtual Learning Environment: Opportunities and Challenges in Higher Education Context	Co-Investigator	100,000 AED	UoS	2020/2021
6.	Development of Greywater Reuse Policy and Procedures for Sharjah, UAE	Shanableh, A, M. Abdallah, T. Merabtene and M. Siddique	430,000 AED	Sharjah Electricity & water Authority	2017/2018-Present
7.	Emerging Contaminants in Wastewater Reuse in The Emirate of Sharjah	A. Shanableh, M. Semreen, L. Semrejjan, Researchers from DRI, USA	120,000 AED	<ul style="list-style-type: none"> • UoS, UAE • Desert Research Institute, USA • Sharjah Research Academy, UAE 	2015/2016 till present
8.	Biogas Production Potential from Manure Produced by Al-Rawabi Dairy Company	A. Shanableh, M. Abdallah and Ch. Ghenai	60,000 AED	Al-Rawabi Dairy Company	2016/2017 2017/2018
9.	Reuse of Treated Effluent from Al-Saja'a Wastewater Treatment Plant, Sharjah, UAE	Shanableh (Principal), M. Abdallah, Researchers from SRA	AED 996,000	University of Sharjah, Sharjah Research Academy & QATRA Company	2018/2019
10.	Assessment of water demand and consumption patterns for residential and public purposes and measures to rationalize and conserve water	T. Merabtene, M. Siddique and A. Shanableh	Being Negotiated	Sharjah Electricity & water Authority	2017/2018
11.	Assessment of Groundwater Resources in Sharjah using Geographic Information System and Remote Sensing: Storage, Retrieval and Monitoring of Groundwater	Rami Al-Ruzouq, Abdallah Shanableh, Tarek Merabtene, Mohsin Siddique	Being Negotiated	Sharjah Electricity & water Authority	2017/2018

12.	Digital Mapping of groundwater potential zones in Sharjah/UAE using remote sensing data and GIS.	R. Al-Ruzouq, A. Shanableh, T. Merabtene, M. Siddique	Being Negotiated	Sharjah Electricity & water Authority	2017/2018-Present
13.	Spatio-temporal Analysis of Groundwater Level and Quality in Sharjah, UAE	Abdullah Yillmaz R. Al-Ruzouq, A. Shanableh, T. Merabtene, M. Siddique	98,000 AED	Sharjah Electricity & water Authority	2017/2018-Present
14.	Circulation and Water Quality Modelling in and around the AlHamriyah Lagoon	Mohsin Saddique Rami Al-Ruzouq, Abdallah Shanableh, Tarek Merabtene, Mohsin Siddique	80,000 AED	Sharjah Electricity & water Authority	2017/2018
15.	Pilot Scale Testing of AKVO Atmospheric Water Generator	Prof. Abdallah Shanableh (PI)	136,000 AED	Sharjah Electricity & water Authority	2017/2018
16.	Evaluation of Asphalt Mixtures with Steel Slag Aggregates Using Advanced Characterization Tests: Pilot Study at Musaffah Intersection, Abu-Dhabi	Waleed Zeiada Ghazi Al-Khateeb Abdallah Shanableh	54,800 AED	Tube City IMS Emirates Steel Abu Dhabi City Municipality	2017/2018
17.	Potential Impact of Climate Change on Materials Selection and Asphalt Pavement Performance in the UAE	Dr. Waleed Zeiada, Dr. Muamer Abuzwidah, Dr. Abdallah Gokhan, and Prof. Abdallah Shanableh	200,000 AED	Ministry of Infrastructure Development (MOID)	2018/2019
18.	Potential Impact of Climate Change on Traffic Safety and Transportation System Performance in the UAE	Dr. Muamer Abuzwidah, Dr. Waleed Zeiada, Dr. Abdallah Gokhan, Dr. Khalid Hamad and Prof. Abdallah Shanableh	185,000 AED	Ministry of Infrastructure Development (MOID)	2018/2019

19.	Experimental Analyses of Biogas Production from Anaerobic Digestion of Camel Farm Waste	Shanableh, A. Abdallah, M.,	30,000 AED	Innogy International Middle East	2017/18
20.	Quality Assurance in Engineering Education and Programs Linkages between University of Sharjah, UAE and Royal Institute of Technology, Sweden.	A. Shanableh, M. Bettayeb, M. Omar, K. Hamad, Jointly with KTH, Sweden	65,000 AED	The Swedish Foundation for International Cooperation in Research and Higher Education	2015/2016 2016/2017
21.	Experimental Assessment and Life Cycle Analysis of State-of-the-art Manure Management Technologies in the UAE	Abdallah, M., Shanableh, A.	71,000 AED	University of Sharjah	2018-Present
22.	Continuous Pilot-scale Operation of Microbial Fuel Cells for Simultaneous Energy Production and Wastewater Treatment under Realistic Operating Conditions	Abdallah, M., Shanableh, A.	80,000 AED	University of Sharjah	2017-Present
23.	Advanced Characterization of Dynamic Soil Properties in UAE for Enhanced Civil Infrastructures Design	Omar, A., Shanableh, A., Tahmaz, A., Zeiyada, W.	196,600 AED	University of Sharjah	2017/2018
24.	Management of Load Transfer to Underground Structures by Using Geocell Soil Reinforcement	Omar, A., Shanableh, A., Tahmaz, A., Zeiyada, W.	99,400 AED	University of Sharjah	2016/2017 2017/2018
25.	Inhibition of Biogas Production from Sewage Sludge Co-Digested with Date palm Seeds and Antibacterial and Anticancer Characteristics of Date Seed Extracts	Shanableh, A., Semreen, M, Saadoun, I. Radeef, W.	150,000 AED	University of Sharjah	2015/2016 2016/2017 2017/2018
26.	Influence of Particle Morphology on Strength Properties of UAE Carbonate Sands	M Omar, A. Shanableh, A. Tahmaz	93,400 AED	University of Sharjah	2016/2017 2017/2018

27.	Modelling and Mapping of Road Traffic Noise in Sharjah City	K. Hamad, A. Shanableh, H. Mehdi	150,000 AED	University of Sharjah	2016/2017 2017/2018
28.	Development of Intensity-Duration-Frequency relationship for Sharjah city under changing climate	Siddique, M Merabtene, T. Shanableh, A. Al-Ruzouq, R.	20,000 AED	University of Sharjah	2015/2016 2016/2017
29.	Estimation of Earthquake Hazard in Sharjah (Collaborative research grant)	Barakat, S. Altoubat, S. Maalej, M. Leblouba, M. Omar, M. Shanableh, A.	150,000 AED	University of Sharjah	October 2016-present
30.	Establishment of the University of Sharjah Seismic Observatory	A. Shanableh P. Davis	TBC	University of California at San Diego, Office of His Highness, Ruler of Sharjah, and UoS	2005-2010
31.	Promotion of sustainable Development Education (SDPRomo)	Universities from Europe, Africa, and Asia and South America	TBC	European Union	2008-2012
32.	Sea water intrusion and the effects on groundwater quality and desalination processes considering the effects of climate change and sea level rise	M. Omar, A. Shanableh, T. Merabtene, T. with Colleagues at Exeter, UK	TBC	British Council	2009-2011
33.	Earthquake Hazard Zoning and Assessment in the UAE—Structural, Geotechnical and Environmental Risk	Barakat, S., A. Shanableh, M. Omar & A. Malkawi	TBC	University of Sharjah + Jordan University for Science and Technology	2004-2007
34.	Bio-Availability of Organic By-Products Generated from Waste Using Hydrothermal Treatment	A. Shanableh	TBC	University of Sharjah	2000-2004
35.	Base-Line Assessment of Water Quality & Circulation Patterns in Khalid and Khan lagoons	A. Shanableh et al.	TBC	University of Sharjah + Environment & Protected Areas Authority	2000/2001

36.	Water Quality Monitoring in Khalid and Khan lagoons	A. Shanableh, M. Omar, et al.	TBC	University of Sharjah of Sharjah + Environment & Protected Areas Authority	2001-2007
37.	Investigation of the Sharjah Old Waste Disposal Site	A. Shanableh, M. Omar, et al.	TBC	Municipality of Sharjah + Environment & Protected Areas Authority + University of Sharjah	2000-2002
38.	A Comprehensive waste Management System for Sharjah	A. Shanableh, M. Omar, et al.	TBC	Municipality of Sharjah + Environment & Protected Areas Authority + University of Sharjah	2000-2003
39.	Bio-availability of Hydrothermal Organic Products from Sludge for Enhancing Biological Phosphorus Removal	A. Shanableh	TBC	Australian Research Council, Australian Government	2000
40.	Packaged Trickle Filter Biological System for Wastewater Treatment	A. Shanableh	TBC	Enviro-Technologies, Pty Ltd	1999
41.	Segregated Biological Nitrogen and phosphorus Removal in Biofilters	A. Shanableh	TBC	Australian Research Council, Australian Government + Office of Research, Queensland Uni of Technology	1999
42.	Recycling Organic Resources from Waste Products Using Hydrothermal Treatment	A. Shanableh	TBC	Queensland University of Technology	1999
43.	Teaching & Learning Project on Storm Water Reuse & Landscaping in a Sustainable Water Cycle	G. Lawson A. Shanableh & B. Lim	TBC	Queensland University of Technology	1999
44.	Teaching & Learning Project - Developing a Multi-disciplinary Project-Based T&L Resource on Sustainable Residential development	A. Shanableh & B. Bajracharya	TBC	Faculty of Built Environment & Engineering, Queensland University of Technology	1999

45.	Combined Sludge Destruction and Volatile Fatty Acids Production for Biological Nutrient Removal	A. Shanableh	TBC	Australian Research Council, Australian Government	1998
46.	Creating a Framework for Industrial Ecology in South East Queensland	B. Roberts A. Shanableh B. B. Lim	TBC	Australian Research Council, Australian Government + Various Private & Government Organizations	1998
47.	Hydrothermal Production of Volatile Fatty Acids from Sludge for Biological Nutrients Removal	A. Shanableh	TBC	Loganholme City Council, Queensland, Australia	1998
48.	Developing a Supercritical Reactor Model for Waste Management & Industrial Applications	A. Shanableh	TBC	Office of Research, Queensland University of Technology	1997 for 2 years
49.	Solving Drainage, Water, and Sanitation Problems in Vietnamese Villages	K. Gow A. Shanableh & J. Liston	TBC	Queensland University of Technology, Australia	1997 for 2 years
50.	Development of the Selby Teaching and Research Resource Collection on Sustainable Development	A. Shanableh B. Bajracharia J. Prior M. Gould	TBC	Dean's Office, Faculty of Built Environment & Engineering, Queensland University of Technology	1996-2000
51.	Bioleaching of Metals from Contaminated Soils	A. Shanableh	TBC	Office of Research, Queensland University of Technology	1996 for 2 years
52.	Case Studies on Sustainable Development for Business and Industry	A. Shanableh	TBC	Queensland Department of Business, Industry and Regional Development	1996 for 2 years
53.	Enhancement of Municipal Wastewater Effluents Using the Lime/Solar Waste Brine Process.	A. Shanableh	TBC	Queensland Foundation for Local government Engineering	1995 for 2 Years
54.	Assessment and Enhancement of Indoor Air Quality	A. Shanableh	TBC	Sheraton Mirage, Gold Coast	1995

55.	Contaminants Preventing Water Reuse in Jordan & Syria	A. Shanableh as Member of Team	TBC	European Community, University of Jordan, Damascus University, Technical University of Denmark	1994 for 3 years
56.	Wastewater Reuse Opportunities in Jordan	A. Shanableh as Member of Research Team	TBC	United States Agency for International Development (USAID), University of Jordan, Washington State University	1993 for 3 Years

LIST OF PUBLICATIONS

Edited Books

1. Shanableh, A. et al. (Eds.). "Advances in Engineering Education". Publisher: University of Sharjah, ISBN: 978-9948-24-127-0 (2018)
2. Shanableh, A. M. Maalej, S. Barakat, M. Omar, S. Al-Toubat, R. Al-Ruzouq and K. Hamad (Eds.) Book of Proceedings of the International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), Sharjah, United Arab Emirates, April 18-20, 2017, MATEC Web Conf., Vol. 120, (2017)
3. Shanableh, A. et al. (Eds.) "Quality Assurance in Engineering Education". Publisher: University of Sharjah, ISBN: 978-9948-10-122-2 (2016) Shanableh, A. et al. (Eds.) Engineering Education in the 21st Century - Quality, Globalization and Local Relevance, Publisher: University of Sharjah, ISBN: 9948-10-098-0 (2013).
4. Shanableh, A. (Ed.). "Integrating Sustainable Development in Higher Education", Publisher: University of Sharjah, ISBN: 9948-10-89-1, (2012).
5. Shanableh et al.(Eds.) Integrating Teaching and Research with Community Service. Publisher: University of Sharjah., (2009).
6. Shanableh, A. and Chang, W. (Eds.) "Towards Sustainability in the Built Environment", Publisher: Queensland University of Technology, Brisbane, Australia, ISBN: 1 86435 489 5, (2001).
7. Shanableh, A. et al. (Eds.) "Towards Sustainable Development – Collaborative Approaches in Built Environment and Engineering Education", Publisher: Queensland University of Technology, Brisbane, Australia, ISBN 1 86435 492 5, (2000).

Book Chapters

1. Shanableh A., Aderibigbe S., Omar M., and Shabib A. (2021). Challenges and Opportunities of Multidisciplinary, Interdisciplinary & Transdisciplinary Research. Higher Education in the Arab World: Research and Development. (Accepted).
2. Monzur A. Imteaz, Muhammad Moniruzzaman and Abdallah Shanableh. Towards developing generalized equations for calculating potential rainwater savings. Wiley - (Accepted)
3. Shanableh A., Al-Ruzouq R. and Al-Khayyat G. (2019). Assessing the Spatial and Temporal Capacity of a Semi-Enclosed Gulf to Absorb and Release CO2 Using GIS and Remote Sensing. Lecture Notes in Civil Engineering, vol 9, pp. 1161-1173, doi: 10.1007/978-981-10-8016-6_81
4. Omar, M., Shanableh, A., Abduljalil, S., Hamad, K., Arab, M., Leblouba, M., and Tahmaz, A. (2019) "Geotechnical mapping of seismic risk for Sharjah city, United Arab Emirates" Lecture Notes in Civil Engineering, Volume 9, 2019, Pages 1185-1210, doi: 10.1007/978-981-10-8016-6_83
5. Al-Ruzouq, R., Hamad, K., & Shanableh, A. (2017). Spatiotemporal Analysis and Image Registration for Studying Growth of Transportation Infrastructure in Sharjah City, UAE. In Global

Changes and Natural Disaster Management: Geo-information Technologies (pp. 113-122). Springer.

Journal Papers

1. Masoud, W., Bhattacharjee, S., & Shanableh, A. (2023). Synthesis of iron-carbon (Fe₀-C) nanocomposite and its use for the removal of rhodamine-B and hexavalent chromium from aqueous solutions. *Key Engineering Materials*, 960, 125–135. <https://doi.org/10.4028/p-4th1tq>
2. Semerjian, L., Aissaoui, S., Shanableh, A., Okoh, A., Elhadi, R., Mousa, M., Alhameed, R., Hassan, J., Akhtar, I., & Semreen, M. (2023). Occurrence, Spatial and Seasonal Variations of Emerging Contaminants in the Aquatic Environment of Sharjah, United Arab Emirates. <https://doi.org/10.2139/ssrn.4524382>
3. Abushawish, A., Chatla, A., Almanassra, I. W., Ihsanullah, I., Shanableh, A., Laoui, T., & Atieh, M. A. (2023). Novel composites of activated carbon and layered double oxide for the removal of sulfate from synthetic and brackish groundwater. *Chemosphere*, 339, 139740. <https://doi.org/10.1016/j.chemosphere.2023.139740>
4. Khalil, A. K., Elgamouz, A., Atieh, M. A., Shanableh, A., & Laoui, T. (2023). Processing and characterization of UAE clay ceramic membranes for water treatment applications. *International Symposium on Engineering and Business Administration*. <https://doi.org/10.4028/p-2rwsts>
5. Backer, S. N., Oussadou, S. E., Almanassra, I. W., Khairi Mousa, M., Atieh, M. A., & Shanableh, A. (2023). Effect of energy band alignments in carbon doped ZnO/TiO₂ hybrid heterojunction photocatalyst on the photodegradation of ofloxacin. *Results in Engineering*, 20, 101432. <https://doi.org/10.1016/j.rineng.2023.101432>
6. Farooq, N., Kallem, P., Imran Khan, M., Qureshi, A. M., Shanableh, A., & Rehman, A. U. (2023). Design and usage of NiO/G-C₃N₄/CNTs/TiO₂ based nanocomposites as improved supercapacitor for energy storage devices. *Journal of Materials Research and Technology*, 26, 7127–7136. <https://doi.org/10.2139/ssrn.4536372>
7. L., Hari, A., Inayat, A., Yousef, L. A., Alarab, S., Abdallah, M., Shanableh, A., Ghenai, C., Shanmugam, S., & Kikas, T. (2023). Recent advances on biodiesel production from waste cooking oil (WCO): A review of reactors, catalysts, and optimization techniques impacting the production. *Fuel*, 348, 128514. <https://doi.org/10.1016/j.fuel.2023.128514>
8. Arif, S., Zafar, S., Khan, M. I., Manzoor, S., Shanableh, A., Garcia, J. F., & Hayat, M. (2023). Removal of chromium (VI) by commercial anion exchange membrane BII from an aqueous solution: Adsorption kinetic, equilibrium and thermodynamic studies. *Inorganic Chemistry Communications*, 152, 110696. <https://doi.org/10.1016/j.inoche.2023.110696>
9. Imteaz, M. A., Shanableh, A., & Aziz, M. M. (2023). Optimisation of twinged stormwater storage for golf course irrigation: A case study in Sydney. *Handbook of Irrigation Hydrology and Management*, 55–65. <https://doi.org/10.1201/9781003353928-4>
10. Nasir, N., Kansal, A., Alshaltone, O., Barneih, F., Shanableh, A., Al-Shabi, M., & Al-Shammaa, A. (2023). Deep learning detection of types of water-bodies using optical variables and ensembling. *Intelligent Systems with Applications*, 18, 200222. <https://doi.org/10.1016/j.iswa.2023.200222>
11. Ayyaril, S. S., Shanableh, A., Bhattacharjee, S., Rawas-Qalaji, M., Cagliani, R., Shabib, A. G., & Imran Khan, M. (2023). Recent progress in micro and nano-encapsulation techniques for environmental applications: A Review. *Results in Engineering*, 18, 101094. <https://doi.org/10.1016/j.rineng.2023.101094>
12. Jena, R., Shanableh, A., Al-Ruzouq, R., Pradhan, B., Gibril, M. B., Khalil, M. A., Ghorbanzadeh, O., Ganapathy, G. P., & Ghamisi, P. (2023). Explainable artificial intelligence (XAI) model for earthquake spatial probability assessment in Arabian Peninsula. *Remote Sensing*, 15(9), 2248. <https://doi.org/10.3390/rs15092248>
13. Abushawish, A., Bouaziz, I., Almanassra, I. W., Al-Rajabi, M. M., Jaber, L., Khalil, A. K., Takriff, M. S., Laoui, T., Shanableh, A., Atieh, M. A., & Chatla, A. (2023). Desalination pretreatment technologies: Current status and future developments. *Water*, 15(8), 1572. <https://doi.org/10.3390/w15081572>

14. Khan, M. I., Shanableh, A., Manzoor, S., Fernandez, J., Osman, S. M., & Luque, R. (2023). Design of tropinium-functionalized anion exchange membranes for acid recovery via diffusion dialysis process. *Environmental Research*, 229, 115932. <https://doi.org/10.1016/j.envres.2023.115932>
15. Khan, M. I., Shanableh, A., Alfantazi, A. M., Lashari, M. H., Manzoor, S., Anwer, R., Farooq, N., Harraz, F. A., Alsaiari, M., & Faisal, M. (2023). Application of QPPO/PVA based commercial anion exchange membrane as an outstanding adsorbent for the removal of eosin-B dye from Wastewaters. *Chemosphere*, 321, 138006. <https://doi.org/10.1016/j.chemosphere.2023.138006>
16. Hayat, M., Manzoor, S., Raza, H., Khan, M. I., Shanableh, A., Sajid, M., Almutairi, T. M., & Luque, R. (2023). Molecularly imprinted ormosil as a sorbent for targeted dispersive solid phase micro extraction of pyriproxyfen from Strawberry Samples. *Chemosphere*, 320, 137835. <https://doi.org/10.1016/j.chemosphere.2023.137835>
17. Asaad, S. M., Inayat, A., Jamil, F., Ghenai, C., & Shanableh, A. (2023). Optimization of biodiesel production from waste cooking oil using a green catalyst prepared from glass waste and animal bones. *Energies*, 16(5), 2322. <https://doi.org/10.3390/en16052322>
18. Almanassra, I. W., Jaber, L., Backer, S. N., Chatla, A., Kochkodan, V., Al-Ansari, T., Shanableh, A., & Atieh, M. A. (2023). Oxidized carbide-derived carbon as a novel filler for improved antifouling characteristics and permeate flux of hybrid polyethersulfone ultrafiltration membranes. *Chemosphere*, 313, 137425. <https://doi.org/10.1016/j.chemosphere.2022.137425>
19. Akram, M. U., Abbas, N., Farman, M., Manzoor, S., Khan, M. I., Osman, S. M., Luque, R., & Shanableh, A. (2023). Tumor micro-environment sensitive release of doxorubicin through chitosan based polymeric nanoparticles: An in-vitro study. *Chemosphere*, 313, 137332. <https://doi.org/10.1016/j.chemosphere.2022.137332>
20. Gibril, M. B., Shafri, H. Z., Al-Ruzouq, R., Shanableh, A., Nahas, F., & Al Mansoori, S. (2023). Large-scale date palm tree segmentation from multiscale UAV-based and aerial images using Deep Vision Transformers. *Drones*, 7(2), 93. <https://doi.org/10.3390/drones7020093>
21. Shahida, S., Khan, M. I., Zafar, S., Shah, K. H., Farooq, U., Hafeez, M., Elboughdiri, N., Shanableh, A., & Abdelfattah, A. (2023). Xad-4 resin impregnated with oxytetracycline for the online preconcentration of zirconium (IV) from environmental and geological samples. *Inorganic and Nano-Metal Chemistry*, 1–9. <https://doi.org/10.1080/24701556.2023.2165678>
22. Khan, M. I., Shanableh, A., Manzoor, S., ur Rehman, A., Shahida, S., & Ahmad, F. (2023). Application of united Arab emirates Arecaceae leaves biochar for adsorptive removal of rhodamine-B from an aqueous solution. *DESALINATION AND WATER TREATMENT*, 283, 247–258. <https://doi.org/10.5004/dwt.2023.29217>
23. Manzoor, S., Garcia, J., Shah, K., Khan, M., Abbas, N., Raza, H., Mubarik, S., Hayat, M., Iram, A., Yar, A., & Shanableh, A. (2022). Multipollutant abatement through visible photocatalytic system. *Catalysts*, 13(1), 65. <https://doi.org/10.3390/catal13010065>
24. Khan, M. A., Raza, N., Manzoor, S., Shuja, R., Raza, H., Khan, M. I., Azam, M., & Shanableh, A. (2023). Experimental design by response surface methodology for efficient cefixime uptake from hospital effluents using anion exchange membrane. *Chemosphere*, 311, 137103. <https://doi.org/10.1016/j.chemosphere.2022.137103>
25. Asaad, S. M., Inayat, A., Rocha-Meneses, L., Jamil, F., Ghenai, C., & Shanableh, A. (2022). Prospective of response surface methodology as an optimization tool for biomass gasification process. *Energies*, 16(1), 40. <https://doi.org/10.3390/en16010040>
26. Rocha-Meneses, L., Hari, A., Inayat, A., Shanableh, A., Abdallah, M., Ghenai, C., Shanmugam, S., & Kikas, T. (2022). Application of nanomaterials in anaerobic digestion processes: A new strategy towards sustainable methane production. *Biochemical Engineering Journal*, 188, 108694. <https://doi.org/10.1016/j.bej.2022.108694>
27. Jena, R., Pradhan, B., Beydoun, G., Alamri, A., & Shanableh, A. (2021). Spatial earthquake vulnerability assessment by using multi-criteria decision making and probabilistic neural network techniques in Odisha, India. *Geocarto International*, 37(25), 8080–8099. <https://doi.org/10.1080/10106049.2021.1992023>

28. Faraz Ahmad, F., Ghenai, C., Al Bardan, M., Bourgon, M., & Shanableh, A. (2022). Performance analysis of atmospheric water generator under hot and humid climate conditions: Drinkable water production and system energy consumption. *Case Studies in Chemical and Environmental Engineering*, 6, 100270. <https://doi.org/10.1016/j.cscee.2022.100270>
29. Khan M. I., Shanableh A., Osman M. O., Lashari M. H., Manzoor S., Rehman A. U., and Luque R. (2022), "Fabrication of trimethylphosphine-functionalized anion exchange membranes for desalination application via electro dialysis process", *Chemosphere*, 308.
30. Abushawish A., Almanassra I. W., Backer S. N., Jaber L., Khalil A. K. A., Abdelkareem M. A., Sayed E. T., Alawadhi H., Shanableh A., and Atieh M. A., (2022), "High-efficiency removal of hexavalent chromium from contaminated water using nitrogen-doped activated carbon: Kinetics and isotherm study", *Materials Chemistry and Physics*, 291.
31. Khan M. A., Raza N., Manzoor S., Shuja R., Raza H., Khan M. I., Azam M., Shanableh A., (2022), "Experimental design by response surface methodology for efficient cefixime uptake from hospital effluents using anion exchange membrane", *Chemosphere*.
32. Ahmad F. F., Ghenai C., Al Bardan M., Bourgon M., and Shanableh A., (2022), "Performance analysis of atmospheric water generator under hot and humid climate conditions: Drinkable water production and system energy consumption", *Case Studies and Chemical and Environmental Engineering*" <https://doi.org/10.1016/j.cscee.2022.100270>
33. Gibril M. B., Sharfi H. Z. M., Shanableh A., Al-Ruzooq R., Wayayok A., Hashim S. J. B., and Sachit M., S., (2022), "Deep Convolutional Neural Networks and Swin Transformer-based Frameworks for Individual Date Palm Tree Detection and Mapping from Large-scale UAV Images" *Geocarto International*, <https://doi.org/10.1080/10106049.2022.2142966>
34. Hayat M., Manzoor S., Raza N., Abbas A., Khan M. I., Elboughdiri N., Naseem K., Shanableh A., Elbadry A. MM., Al Arni S., Benaissa M., and Ibrahim F. A., (2022), "Molecularly Imprinted Polymeric Sorbent for Targeted Dispersive Solid-Phase Microextraction of Fipronil from Milk Samples", *ACS Omega*
35. Farooq N., Shanableh A., Qureshi A. M., Jabeen S., and Rehman A. U., (2022), "Synthesis and characterization of clay graphene oxide iron oxide (clay/GO/Fe₂O₃)-nanocomposite for adsorptive removal of methylene blue dye from wastewater" *Inorganic Chemistry Communications*, 145.
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