

CURRICULUM VITAE (C.V)



1- Personal Data

Name	Abdul-Khaliq Mahmud Hussain
Sex	Male
Date of Birth	30/8/1946
Place of Birth	Basra, IRAQ
Marital Status	Married
College	Engineering College
Department	Civil Engineering Department
Title	Associate Professor
Major	Civil Engineering
Specialization	Fluid Mechanics (Hydraulics)
E-mail	dr.eng.abdulkhaliq@gmail.com
Mobile and WhatsApp No.	009647713794793
Ranke in Iraqi Engineers Union	Consultant Engineer since 1984
Identification of Iraqi Engineers Union	No.5543 Date: 21/09/1968 (CONSULTANT ENGINEER)

2 - Academic Qualifications

2 – 1 - Highest University Degrees:

Degree	Date Degree Awarded	Department	College	University
Ph.D.	1981	Civil Engineering Department	Engineering College	University of Newcastle-Upon -Tyne, Newcastle-Upon-Tyne, England, U.K.
M.Sc.	1978	Civil Engineering Department	Engineering College	University of Glasgow, Glasgow, Scotland, U.K.

2 – 2 - Preceding University Degree:

Degree	B.Sc.
Date degree awarded	1968
Department	Civil Engineering Department
College	Engineering College
University	Basra University, Basra, IRAQ
Major	Civil Engineering

3 - Thesis

3 - 1 - Title of Ph.D. Thesis

The Laboratory Determination of Longitudinal and Lateral Dispersion Coefficients in Unidirectional Groundwater Flow.

3 - 2 - Title of M.Sc. Thesis

A Sand Tank Model Study of Steady and Non-Steady State Drainage.

4 - Languages

Language Proficiency	Reading	Writing	Conversation
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

5 -Teaching Experience 39 Year (1982 - 2021)

5 – 1 – Universities and Periods

University (Employer)	From	To	Job Title/Rank (Position)	Inclusive Duties	Type of Job
Civil Engineering Department, Iraq University College (Private), Basra, Iraq	2017	2021	Academic Teaching Staff Member (Associate Professor) & Consultant	Teaching, Research & Consultation	Full Time
Civil Engineering Department, Iraq University College (Private), Basra, Iraq	2011	2017	Head of the Department, Academic Teaching Staff Member (Associate Professor) & Consultant	Administration, Teaching, Research & Consultation	Full Time
Civil Engineering Department, Engineering College, El-Fatah University, Tripoli, Libya	2008	2011	Academic Teaching Staff Member (Associate Professor) & Consultant	Teaching , Research & Consultation	Full Time
Civil Engineering Department, Engineering College, University of El- Mergib, Al-Khoums, Libya	2001	2008	Academic Teaching Staff Member (Assistant Professor) & Consultant	Teaching , Research & Consultation	Full Time
Civil Engineering Department, Military Engineering Academy, Tajora, Tripoli, Libya	1998	2001	Academic Teaching Staff Member (Assistant professor) & Consultant	Teaching, Research & Consultation	Full Time

Civil Engineering Department, Engineering College, Basra University, Basra, Iraq	1997	1998	Academic Teaching Staff Member (Assistant Professor) & Consultant	Teaching, Research & Consultation	Full Time
Civil Engineering Department, Engineering College, Tikrit University, Tikrit, Iraq	1993	1997	Academic Teaching Staff Member (Assistant Professor) & Consultant	Teaching, Research, Administration & Consultation	Full Time
Civil Engineering Department, Engineering College, Basra University, Basra, Iraq	1982	1993	Academic Teaching Staff Member (Lecturer) & Consultant	Teaching, Research, Administration & Consultation	Full Time

5 -2- Subjects Taught in Specialization (Under-Graduate Level)

Subject	No. of Times	Semester/Year	Country
Fluid Mechanics 1 & 2 (Hydraulics)	16	Year	Iraq
	18	Semester	Iraq
	24	Semester	Libya
Pipes Network	6	Semester	Libya
Hydraulic Structures	5	Year	Iraq
	20	Semester	Libya
Conveying and Distributing Water	2	Semester	Libya
Water & Wastewater Transportation Systems	4	Semester	Libya
Hydrology	6	Year	Iraq
	20	Semester	Libya
Groundwater Hydrology	4	Semester	Libya
Design of Irrigation Systems	6	Year	Iraq
Design of Drainage Systems	6	Year	Iraq
Irrigation and Drainage Principles	12	Year	Iraq
	10	Semester	Iraq

	4	Semester	Libya
Wastewater Treatment Systems	10	Semester	Libya
Advanced Theory of Drinking Water Purification	10	Semester	Libya
Sanitary Engineering and Environment	6 24	Year Semester	Iraq Libya

5 - 3 - Subjects Taught in Major Specifications (Under-Graduate Level)

No.	Subject	No. of Times	Semester/ Year	Country
1	Solid Waste Management	8	Semester	Libya
2	Municipals Engineering	6	Semester	Libya
3	Quantity Surveying & Specifications	5	Year	Iraq
4	Engineering Economy	8	Semester	Libya
5	Foundation Engineering	3	Year	Iraq
6	Civil Engineering Drawing	1	Year	Libya
7	Surveying 1	1	Semester	Libya
8	Technical Report Writing	1	Semester	Libya
9	Descriptive Geometry	1	Semester	Libya
10	Numerical Analysis	1	Semester	Libya
11	Engineering Mechanics (Static's and Dynamics)	1 2	Year Semester	Libya Iraq

5 - 4 - Subjects Taught in Specialization (Post-graduate Level)

No.	Subject	No. of Times	Semester/ Year	Country
1	Advanced Fluid Mechanics	2	Semester	Iraq
2	Open Channels	3 2	Semester Semester	Iraq Libya
3	Groundwater Hydraulics	4 2	Semester Semester	Iraq Libya
4	Groundwater Hydrology	4 2	Semester Semester	Iraq Libya
5	Flow Through Porous Medium	4 2	Semester Semester	Iraq Libya

6	Irrigation and Drainage	4 2	Semester Semester	Iraq Libya
7	Sanitary Engineering and Environment	6	Semester	Libya

6 - Supervision

Supervisor and External Examiner of Numerous Under and Post-graduate Students Projects in Iraq and in Libya.

7 - Professional Registration

- 1- Member of the Iraqi Engineers Union.
- 2- Member of the Iraqi Engineers Society.
- 3- Member of the Jordanian Environment protection Society .
- 4- Member of the Libyan Engineers Union.
- 5- Member of the International Solar Energy Society (ISES).
- 6- Member of the International Water Online Community.

8 - Seminars

1	Application of Salinity-Gradient Solar Pond Technologies for Water Desalination in Arid Regions.
2	Application of Salinity-Gradient Solar Pond Technologies for Water Desalination in Coastal Areas.
3	Groundwater Pollution.
4	Salinity in Shatt Al-Arab, Basra, Iraq.
5	Quality of G.W. in Iraq.
6	Quality of G.W. in Libya.
7	Drinking Water Standards.
8	Corrosion Control of Metallic Water Pipelines.
9	Corrosion Control of Metallic Petroleum Pipelines.
10	Solid Wastes Recycling ,Reuse and Disposal.
11	Water Treatment Technologies and Water Reuse.
12	Dispersion of Pollutions in Unidirectional Groundwater Flow.
13	Renewable Energy.
14	A Physical Study of Steady and Non-Steady State Drainage.
15	Groundwater Contamination.
16	Direct Solar Systems and Applications for Water Desalination.
17	Open Channels.

9 - Conferences Attended

1	All Engineering Conferences for Engineering College, Basra University, IRAQ, 1981-1993.
2	All Engineering Conferences for Engineering College, Tikrit University, IRAQ, 1993 - 1997.
3	Planning Criteria for Arabic Cities, Second Scientific Conference for Arabic Architecture Committee, 6,7, 8/5/2001, Tripoli, Libya.
4	Solar Desalination Symposium, International Energy Foundation, 15 - 16/5/2001, Tripoli, Libya.
5	Seventh Mediterranean Petroleum Conference and Exhibition (MPC-01), International Energy Foundation, 16 – 18 October, 2001, Tripoli Libya, 2001.
6	Third International Conference on Waste Management and the Environment (Waste Management 2006), 21 - 23 June 2006, Malta.

10 - Publications

30 Scientific Papers in Iraqi Journals and in Proceedings of Arabic and International Conferences.

11- Professional Experience 45 Years (1968-2013)

Institution (Employer)	From	To	Job Title/Rank (Position)	Inclusive duties	Type of Job
Ministry of Irrigation and Drainage, Department of Irrigation and Drainage Projects , Iraq	1968	1975	Supervisor Engineer, Resident Engineer & Project Director	Administration & Supervision	Full Time
Consulting Engineering Bureau of Basra University, Basra, Iraq.	1981	1987	Director & Consultant Engineer	Administration, Supervision & Consultation	Part Time
Consulting Engineering Bureau of Basra, Private Sector, Basra, Iraq.	1984	1998	Director & Consultant Engineer	Administration & Consultation	Part Time

Consulting Engineering Bureau of Tikrit University, Tikrit, Iraq.	1993	1997	Director & Consultant Engineer	Administration & Consultation	Part Time
Libyan - Romanian Joint Stock Company for Land Reclamation, Tripoli, Libya.	1999	2001	Consultant Engineer & Expert	Consultation	Part Time
Consulting Engineering Bureau of El-Mergib University, Al-Khoms, Libya.	2001	2008	Consultant Engineer & Expert	Consultation	Part Time
Private Consulting Engineering Bureau, Tripoli, Libya	2008	2011	Consultant Engineer & Expert	Consultation	Part Time
Consultants Office, Basra Governorate, Basra, Iraq	2011	2012	Consultant Engineer & Expert for Water and Wastewater Sector.	Consultation	Full Time
Private Consulting Engineering Bureau, Basra, Iraq	2011	2013	Consultant Engineer & Expert	Consultation	Part Time

12 - Professional Experience

12 - 1 - Professional Experience in Iraq

Design, Administration, Supervision, Consultation and Expert for Several Irrigation and Drainage Projects in Basra, IRAQ included :-

Open Channels	Pumping Stations
Open Drains	Drilling of Wells
Subsurface Title Drains	Lakes
Irrigation and Drainage Structures (Hydraulic Structures)	Bridges
Earth Embankments	Culverts
Retaining Walls,	Pipes Network
different types of Buildings	

12 - 2 - Professional Experience in Libya

1	From 1999 to 2000 / Consultation for water and Sewage Systems, General Hospital in Zliten, Enterprise (Italian Company).
2	From 2000 to 2001 / Consultation and Expert for Libyan Romanian Joint Stock Company for Land Reclamation, Tripoli, Libya.
3	From 2001 to 2008 Consultation and Expert for several water and sanitary projects, Consulting Engineering Bureau of El-Mergib University, Al-Khoms, Libya.

13 - List of papers Accepted and Published in Journals and Conferences Proceedings

1	Hussain, A-Kh. M., 1995 , Development of Numerical Model of Two Dimensional Dispersion in Groundwater Flow, The Scientific Journal of Tikrit University, Engineering Sciences, Vol.2, No.2, pp.50-72, 1995, Ministry of Higher Education and Scientific Research, University of Tikrit, Tikrit, Iraq.
2	Hussain, A - Kh. M., 1996 (a) , Statistical Study of Groundwater in Zubair District/ Basrah Governorate, The Scientific Journal of Tikrit University, Engineering Sciences, Vol.3, No.1, pp. 1-26, 1996, Ministry of Higher Education and Scientific Research, University of Tikrit, Tikrit, Iraq.
3	Hussain, A - Kh. M., 1996 (b) , Groundwater in Iraq and Their Suitability for Irrigation Purposes, The Scientific Journal of Tikrit University, Engineering Sciences, Vol.3, No.2, pp. 26-45, 1996, Ministry of Higher Education and Scientific Research, University of Tikrit, Tikrit, Iraq.
4	Hussain, Abdul - Khaliq M., 2001 (a) , Application of Salinity - Gradient Solar Pond Technologies for Water Desalination in Arid Regions, Solar Desalination Symposium, International Energy Foundation, 15-16/5/2001, Tripoli, Libya.
5	Hussain, Abdul - Khaliq M., 2001 (b) , Corrosion Control of Metallic Petroleum Pipelines, Seventh Mediterranean Petroleum Conference and Exhibition (MPC-01), International Energy Foundation, 16 – 18 October, 2001, Tripoli, Libya, 2001.
6	Hussain, A - K. M., 2001 © , Application of Salinity-Gradient Solar Pond Technologies for Water Desalination in Coastal Areas, International Solar Energy Society (ISES) 2001 Solar World Congress, Bringing Solar down to earth, Adelaide, South Australia, 25 th -30 th November, 2001, Proceedings Volume 2, PP. 877 – 881.
7	Hussain, Abdul - Kh. M., 2003 , Solar Energy Utilization in Libya for Seawater Desalination, ISES Solar World Congress 2003, Solar Energy for a Sustainable Future, In Gteborg, Sweden, 14 th -19 th Jun 2003.

8	Hussain, Abdul - Kh. M., and Edaayf, Ramadan M. Yahya, 2004 (a), Solar Ponds Utilization for Seawater Desalination in Libya, International Fairs and Conference on Renewable Energy Equipments & Technologies (REAsia 2004), Solar Thermal Conference & Exhibition, Beijing , China, 7 th - 9 th April, 2004.
9	Hussain, A - K. M., and Edaayf, R. M. Y., 2004 (b), Seawater Desalination by using Salinity- Gradient Solar Pond Technologies, Second International Conference on Waste Management and the Environment, Rhodes Greece, 29 th Sep. – 1 st Oct. 2004, Proceedings, Waste Management 2, Section 11, Water and Wastewater Treatment, WIT Press, Southampton, Boston, UK, PP. 615-620.
10	Hussain, Abdul - Kh. M., 2005 (1), Seawater Distillation by Using Solar Energy, Accepted for Oral presentation at Sustainable Planning 2005, Second International Conference on Sustainable Planning and Development, 12 - 14 September 2005, Bologna, Italy.
11	Hussain, Abdul - Kh. M., 2005 (2), Solar Ponds Utilization for Seawater Desalination, Accepted for Oral presentation at Water Science and Technology Association (WSTA) Seventh Gulf Water Conference, Water in the GCC.... Towards an Integrated Water Resources Management, 19 th – 23 rd November, 2005, State of Kuwait.
12	Hussain, Abdul - Kh. M. and Rifai Abdussalam M., 2005, Corrosion of reinforcing steel in reinforced concrete bridge, Accepted for Oral presentation at Third International Conference on Waste Management and the Environment (Waste Management 2006), 21 - 23 June 2006, Malta.
13	Hussain, Abdul - Kh. M., and Edaayf, Ramadan M. Yahya, 2006 (a), Sustainable energy utilization for seawater desalination, Accepted for Oral presentation at First International Conference on the Management of Natural Resources, Sustainable Development and Ecological Hazards (The Ravage of the Planet 2006), 12 - 14 December 2006, Bariloche, Argentina.
14	Hussain, Abdul - Kh. M., Edaayf, R. M. Y., & Al – Tughar, M., 2006, Salt-Induced Reinforcing Steel Corrosion in Concrete Structures, The 8th International Conference on Concrete: Technology in Developing Countries (8ICCTDC), Al-Hammamat-Tunis, Tunisia, 8 – 9 November 2007, Proceedings, pp. 57 - 66.
15	Hussain, Abdul - Kh. M. and Rifai Abdussalam M., 2007 (b), Corrosion of reinforcing steel in reinforced and prestressed concrete bridge, Accepted for Oral presentation at Second International Conference on the Simulation of Electrochemical Processes (Electrocor 2007), 9 - 11 May 2007, Proceedings, Myrtle Beach, USA, PP. 287-295.
16	Hussain, Abdul - Kh. M., and Edaayf, R. M. Y., 2008, Reinforced concrete bridge decks deterioration caused by Corrosion, Accepted for Oral

	presentation at The 7th International Congress, Concrete: Construction's Sustainable Option held in Dundee, Scotland, U.K., from 8 - 10 July 2008, Proceedings, PP. 503-514.
17	Dr. Abdul-Khaliq M. Hussain, Dr. Almabruk Abdugader Sanoussi and Eng. Hasiba Abdul-Khaliq M. Hussain, 2010 (a), 'Protection of Metallic Water Pipelines from Corrosion', the 10th International Symposium on Stochastic Hydraulics and the 5th International Conference on Water Resources and Environment Research (joint Water 2010 symposium) , 5 to the 7 July 2010, Quebec City, Proceedings, PP. 300-315.
18	Dr Abdul-Khaliq M. Hussain, Dr. Salah Al-Deen Al- Saraj, 2010 (b) 'Reinforcing Steel Bars Corrosion in Self-Compacting Reinforced Concrete Structures', SCC2010, Abstract Submission, 6th International RILEM Symposium on Self-Compacting Concrete – 4th North American Conference on the Design and Use of SCC to be held in the period 26-29 September 2010, Montreat, Canada, PP. 600-610.
19	Dr. Abdul-Khaliq M. Hussain, Dr. Salah Al-D. Al- Saraj and Eng. Hanan K. Ksheer, 2010 (c), 'Groundwater Balance in NW Libya (Jifara Basin)', International Conference on Environmental Challenges A Global Concern (ICEC'10), October 15-16, 2010, India.
20	Dr. Abdul-Khaliq M. Hussain, Dr. Bashir Al. Tantosh and Dr. Elsadeq A. Abdalla, 2010 (d) ' Effects of polluted water on the Metallic Water Pipelines', October 2010 ICSWRM 2010 : International Conference on Sustainable Water Resources Management, 27 October 2010, Paris, France, Proceedings, PP.210-222.
21	Dr. Abdul-Khaliq M. HUSSAIN & Dr. Almabruk abdugader Sanoussi, 2010 (e) "Pollution of drinking Water Transported by Corroded Metallic Pipelines", 2010 2nd International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2010), 2 to 4 November 2010, Cairo, Egypt.
22	Abdul-Khaliq M. Hussain & Bashir A. Tantosh, 2011(a), 'Traffic accidents in Libya', Urban Transport 2011, 15th International Conference on Urban Transport and the Environment, 6 – 8 June 2011, Pisa, Italy.
23	Dr. Abdul-Khaliq M. Hussain, Dr. El-sadeq A. Abdalla and Dr. Bashir Al- E. Tantosh, 2011 (b), "Reinforced Concrete Structures in Sulphate Environments", 7th International Conference, amcm 2011, Analytical Models and New Concepts in Concrete and Masonry Structures, June 13-15, 2011, Krakow, Poland.
24	Dr. Abdul-Khaliq M. HUSSAIN & Dr. Almabruk abdugader Sanoussi, 2011©, "Solar Ponds Utilization for Seawater Distillation" 2011 International Conference on Future Environment and Energy (ICFEE 2011), 25 to 27 March 2011, Sanya, China.

25	Dr. Abdul-Khaliq M. Hussain, 2011, Using Solar Energy for Household Water Heating, Accepted for Oral Presentation at The 12th Arab Structural Engineering Conference, to be held in the period 20-23/11/2011, Engineering College, El-Fateh University, Tripoli, Libya.
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قائمة بالبحوث المقبولة و المنشورة في المؤتمرات الليبية - 14

1	د. عبد الخالق محمود حسين و د. مختار أبو راوي, 2004, التآكل في حديد التسليح العادي و المجهد في الجسور الخرسانية, مجلد الأبحاث العلمية الجزء الثاني للمؤتمر الوطني الثاني لمرقبة المواد البناء و الهندسة الإنشائية المنعقد في جامعة المرقبة عام 2004, الخمس, ليبيا, ص 301 – 310.
2	د. عبد الخالق محمود حسين و د. مختار أبو راوي, 2004, الآثار الصحية لخزانات مياه الشرب المنفذة من الخرسانة المسلحة, المؤتمر الوطني الثاني لمرقبة المواد البناء و الهندسة الإنشائية المنعقد في جامعة المرقبة عام 2004, الخمس, ليبيا.
3	د. عبد الخالق محمود حسين و د. مختار أبو راوي, 2004, فوائد استعمال الطاقة النظيفة لتسخين المياه في المباني, المؤتمر الوطني الثاني لمرقبة المواد البناء و الهندسة الإنشائية المنعقد في جامعة المرقبة عام 2004, الخمس, ليبيا.
4	د. عبد الخالق محمود حسين و د. مختار أبو راوي, 2004, أسباب حصول الشقوق في الخرسانة المسلحة و كيفية معالجتها, المؤتمر الوطني الثاني لمرقبة المواد البناء و الهندسة الإنشائية المنعقد في جامعة المرقبة عام 2004, الخمس, ليبيا.
5	الدكتور عبد الخالق محمود حسين السالم و الدكتور رمضان مفتاح يحيى الضعيف, 2006, تطور التعليم العالي في الجماهيرية العظمى / واقع و أهداف, المجلد الأول لأبحاث المؤتمر العلمي حول التعليم التقني في الجماهيرية العظمى, المعهد العالي للهندسة/ هون, 2006.
6	الدكتور عبد الخالق محمود حسين, الدكتور صلاح الدين السراج و المهندسة حنان الخويجي, 2008, تأثير الكبريتات المذابة في مياه آبار منطقة الجنوب الغربي من ليبيا على الخلطة الخرسانية, المؤتمر الأول للتشييد في المناطق الصحراوية, بمدينة سبها, للفترة 2008/12/24-22, كلية الهندسة, جامعة سبها, ليبيا.
7	الدكتور عبد الخالق محمود حسين, الدكتور صلاح الدين السراج و المهندسة فاطمة الديب, 2008, حوض مرزق ودوره الحيوي في النمو العمراني لمنطقة سبها, المؤتمر الأول للتشييد في المناطق الصحراوية, بمدينة سبها, للفترة 2008/12/24-22, كلية الهندسة, جامعة سبها, ليبيا.
8	الدكتور عبد الخالق محمود حسين, الدكتور الصادق عبيد عبدالله و الدكتور بشير العربي تنتوش, 2010, "المياه الجوفية في منطقة سبها و تأثير استعمالها في الخلطة الخرسانية" مجلد أبحاث المؤتمر الوطني الخامس لمرقبة المواد البناء و الهندسة المدنية, أكاديمية الدراسات العليا- جنزور- طرابلس, ليبيا, المنعقد خلال الفترة من 2010/12/6-5, مجلد أبحاث المؤتمر ص 75-81.
9	الدكتور عبد الخالق محمود حسين السالم, 2011, دور البنية بحصول الشقوق في الخرسانة المسلحة, المؤتمر العربي الثاني عشر للهندسة الإنشائية, المنعقد بتاريخ 2011/11/23-20, جامعة الفاتح/ كلية الهندسة/ قسم الهندسة المدنية/ طرابلس/ ليبيا.
10	الدكتور عبد الخالق محمود حسين السالم, 2011, حماية محطات التحلية من التآكل, المؤتمر العربي الثاني عشر للهندسة الإنشائية, المنعقد بتاريخ 2011/11/23-20, جامعة الفاتح/ كلية الهندسة/ قسم الهندسة المدنية/ طرابلس/ ليبيا.

