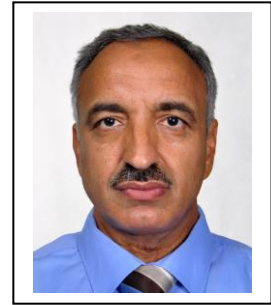


Curriculum Vita

Rasul Mejbel Khalaf



Name: Asst. Prof. Dr. Rasul Mejbel Khalaf

Gender: male

Date of birth: 1/1/1962

Marital status: married

Nationality: Iraqi

Current E-mail address: rasulcon@yahoo.com

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Current mobile number: +9647901369508 , +9647705845110

Language: Arabic and English (reading and writing)

Computer ability: I'm good in working on computer and I have many attempts on mathematical models depend upon computer programming.

Qualifications:

1. Ph.D. in *Water Resources Engineering*, 1999, University of Baghdad, Iraq.
2. M.Sc. in *Hydraulics Engineering*, 1986, University of Baghdad, Iraq.
3. B.Sc. in *Water Resources Engineering*, 1983, University of Baghdad, Iraq.

Fields of Activity:

- *Water Resources System analysis*
- *Water Resource Management*
- *Hydraulic Engineering*
- *Earth & Rock fill Dams*
- *Hydrology*
- *Ground Water*
- *Surface and sub-surface water pollution*
- *Numerical Modeling for Hydraulic & Environmental Problems*

Posts Title

1. Instructor in Civil Engineering of Tikrit University, Salahddin Governorate, Iraq.1991-2004
2. Consultant Engineer in the Bureau of Consultancy Engineering – Engineering College – Tikrit University.1995-2004.
3. Consultant Engineer in the Bureau of Consultancy Engineering – Engineering College – Mustansiriyah University.2004-
4. External professor (graduate studies) College of Engineering , Baghdad University.2001-2005,as well as university of Technology.
5. Asst. Professor in Environmental Engineering Department, Al-Mustansiriyah University.2005-2008
6. Asst. Professor in Civil Engineering Department, Al-Mustansiriyah University.2008-
7. Editorial Manager of the *Journal of Engineering and Development* Since 2013-

List of a Significant Publishing Papers that I had written

1. Evaluation of selected Models For Tigris River sediment Discharge At Baghdad City,1989.
2. Development of Prediction Model for total Transport Load in Tigris River at Baghdad,1990
3. Analysis of Sediment Movement in Tigris River at Tikrit City,1993
4. Flow Resistance Estimation of some alluvial canals in middle Euphrates,1994
5. Hydraulic Performance of Duckbill weirs under submerged flow condition,2004
6. Formula for calculating Normal depth in Open Trapezoidal Channels,2005
7. A computer Expert System for Analysis and Control of Water Hammer problems, 2005.
8. Prediction Downpull Force on Tunnel Gate with Different Gate Lips Geometry ,2009
9. Hydraulic Performance of Mandali Dam Spillway in Iraq ,2010
10. Effect of Using Different (k-ε) Turbulent Models on Downpull Coefficients, 2012

11. Modeling of Transient Groundwater Flow Using Fuzzy Approach, 2013.
12. Safe Management for Regional Groundwater Sustainability in Bahr Al- Najaf Using Fuzzy Approach, 2013.
13. Evaluation of Irrigation Water Quality Index (IWQI) For Al-Dammam Confined Aquifer in the West and Southwest of Karbala City , Iraq, 2013.
14. Optimum Groundwater Management Using Genetic Algorithm ; Part I: Application of Single Objective Function (SOGA). 2013
15. Optimum Groundwater Management Using Genetic Algorithm; Part II: Application of Multi-Objective Function (MOGA). 2013
16. Experimental and Artificial Neural Networks Modeling for Rivers Bed Morphology Changes near Direct Water Supply Intakes.2014
17. Flow characteristics and energy dissipation over traditional and stepped spillway with semicircular crest.2014

Unpublished Papers(under preparation)

1. Direct solution to define the phreatic surface for Heterogeneous inclined Aquifers
2. A Novel Semi-analytical solution of Gradually Varied Flow Equation.
3. Flow Resistance Estimation of some alluvial canals in middle Euphrates
4. Typical Design of equilibrium canals using Numerical Technique.

List of supervised M.Sc. &Ph.D. Theses

1. **M.Sc.:** "Water Quality Model For Diyala River Using Optimization Technique", Hussam Kadhem Majeed, College of Engineering, Al Mustansiriya University, 2001.
2. **M.Sc.:"** Optimum Design of Cross Regulator Floor by Using Nonlinear Programming ", Yasseen Ali Salih , College of Engineering, Tikrit University, 2001.
3. **M.Sc:** " Hydraulic performance of Duckbill Weirs Under Submerged Flow Condition ", Aqeel Redhiyo Lamy , College of Engineering, Al Mustansiriya University, 2002.

4. **M.Sc.:** " A Computer system for Analysis and Control of Water Hammer Problems ", Wisam Jasim Al-Hilo , College of Engineering, Al Mustansiriya University, 2002.
5. **M.Sc.:** "Hydrodynamic and Water Quality Model for Euphrates River at Al Qadis Dam-Ramadi Barrage Reach" ,Y Hareth Saadi Ayoub, College of Engineering, Tikrit University, 2003.
6. **Ph.D. :** "Simulation Model For Predicting Downpull On Tunnel Gates with Different Lip Geometries ",Shayma'a Abudl Muttalib, College of Engineering, Al Mustansiriyah University,2008.
7. **Ph.D. :** "Transient Ground water Flow using Fuzzy Aproach", Thu Fikar R. Mahdi, College of Engineering, Al Mustansiriyah University,2013.
8. **Ph.D. :** "Optimum Management Models for Groundwater Use in Karbala Desert Area" ", Waqed Hameed Hassen , College of Engineering, Al Mustansiriya University,2013.
9. **Ph.D. :** " Hydrodynamic Modeling for Rivers Bed Morphology Changes at Water Supply Intakes ", Sana A. T. Al- Osamy , College of Engineering, Al Mustansiriyah University,2014.

Society Activities

1. Membership of Iraqi Engineers union
2. Membership of Iraqi Society of Engineers
3. Membership of Iraqi Scientific Society of Water Resources
4. Membership of Iraqi Society of Teachers

Work Experiences

For the period 1991–2004:(Instructor in Department of Civil engineering, College of Engineering, University of Tikrit, Iraq.)

1. Working as a member of teaching faculty. Responsibilities include teaching an under graduated courses in Engineering such as Engineering Hydrology ,Sanitary Engineering, Fluid Mechanics, and Hydraulic Structures.
2. Teaching graduated course in hydraulic and geotechnique field, such as flow Through porous media ,Finite Element Method, analysis of Numerical method ,water Resources system analysis.
3. Consultant Engineering in the Bureau of Engineering Consultancies Engineering College, Tikrit University.

For the period 2004 – 2007:

Faculty member of Department of Environmental Engineering, College of Engineering, Al Mustansiriya University.

1. Teaching of many subjects such that: Hydraulics Engineering, Water Resources Engineering , Engineering Hydrology, Plumbing & pipe Network design, and introduction to Ground water pollution.
2. Teaching graduated course in hydraulic and Environmental field, such as flow Through porous media ,Finite Element Method, analysis of Numerical method ,water Resources system analysis, advanced Fluid mechanics.
3. Working as a supervisor of post graduate studies in Hydraulics & Environmental Engineering Field.
3. Consultant Engineer in the Bureau of Consultancy Engineering , Engineering College – Mustansiriyah University.
4. Working as a senior designer in water distribution system project.
5. Supervision and Consulting of Horan – two Dam in Rutba, Al-anbar Governorate.
6. Designing and Consulting for the four earth dams named Shirin, Palkhanah, Qarah – Hassan and Zangana in Kirkuk Governorate.
7. Performing and Consulting of the Hydraulic Model of Mandali Dam for the avail of AL-Rafidain General Company for Dams Construction .
8. Supervision and Consulting of Geotechnical Investigation of Al-Shihabi Dam in Waset Governorate.

For the period 2008 – :

Faculty member of Civil Engineering Department, College of Engineering, Al Mustansiriyah University.

For the period 2013 – :

Editorial Manager of the **Journal of Engineering & Development** /College of Engineering- University of Al-Mustansiriyah (**JEAD**) .