Curriculum Vitae

Asst. Prof Dr. Sadiq Salman Muhsun

Mustansiriyah University – College of Engineering, Water Resources Engineering Dept.

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PERSONAL SUMMARY:

Specialize in Water resources engineering, CFD, Mathematics, Statistics, teaching, training, human resources management providing learning and growth opportunities for professional organizational.

EDUCATION:

-**B.Sc.** in civil engineering (branch of water resources), university of Baghdad, 1993 with grade of "good" and in a 3rd rank.

-**M.Sc.** in Hydraulic, University of Baghdad, College of Engineering, civil engineering (branch of water resources), Iraq, 1997, with grade excellent. The "***Clogging of Emitters When Using Saline Water***" is the main purpose of the thesis. An extensive circumstance testing program was carried out to achieve the purpose of the study.

-**Ph. D.** in Water resources engineering, University of Technology, Civil Engineering Department, Iraq, 2003, with very good grade degree. The "***The effect of under construction reservoirs on the optimum operation of Tigris river system***" is the main purpose of the thesis. An extensive optimization computer program was carried out to achieve the purpose of the study.

ACADEMIC HONORS AND AWARDS:

Honorary shield of excellent lecturer of 2007-2011 / College of Engineering/ Mustansiriyah University

ACADEMIC /TEACHING EXPERIENCE:

1- A teacher in the University of Baghdad, College of Engineering, Water resources Eng. In Computer laboratory, Iraq, during the period of 1997 - 1998.
2- I have been teaching a water resources engineering in the Mustansiriyah University, College of Engineering, Environmental Eng. Dep., Iraq, since 2004.
3- I have been teaching a Statistics engineering in the Mustansiriyah University, College of Engineering, Environmental Eng. Dep., Iraq, since 2004 to 2015.
4- I have been teaching a Mathematic engineering in the Mustansiriyah University, College of Engineering, Environmental Eng. Dep., Iraq, since 2014.
5- Responsible of training computer room and the programmer of construction tests in the national center for construction labs and researches in Iraq from 11/11/2000 until 15/6/2008.

COURSES TAUGHT:

Undergraduate	graduate
water resources engineering	Optimization
Statistics engineering	Computational fluid dynamic (CFD)
Mathematic engineering	
Fluid mechanic	

PROFESSIONAL AFFILIATIONS:

- Supervisor of hydraulic Laboratory
- membership in Iraqi engineering union registration since 1993.
- Member of the exam committee of Environmental Engineering dept. 2007-2011

PUPLICATIONS:

Scientific research articles published:

1-**"the effect of type of emitters and operation pressure on the time of emitters' clogging"**. 4th Sc. Conf. of the college of eng. Univ. of Baghdad, 1997.

2-**"Effect of under construction reservoirs on the optimum operation of Tigris river system during flood and drought periods"**. 5th Sc. Conf. of the college of eng. Univ. of Baghdad, 2002.

3- **"CBRTest - new mathematical statistical model"** a report subjected to the national center for construction labs. and researches" , 2006.

4- " ***Numerical Solution of Manning Equation in Prismatic Channel"***,2nd Sc. Conf. of the college of eng. Univ. of AL-kadisia, 2009.

5- ***"COMPARING OF STANDARD AND RECENT EXTREME PROBABLE DISTRIBUTIONS CORRESPONDING TO IRAQI STREAMS FLOW"***, **", Sadiq S. M. & Safaa N. H ,** Journal of Engineering and Sustainable Development, **Al-Mustansiriya engineering periodical-Iraq- Baghdad 2010, Volume**: 14 **Issue**: 4 **Pages**: 93-108.

6- **" HYDRAULIC PERFORMANCE OF MANDALI DAM SPILLWAY IN IRAQ",** Riadh Zuhair Al-Zubaidi , Rasul Mejbel Khalaf , and Sadiq Salman, Journal of Environmental Studies [JES] Vol.5: PP. 35-48 **Suhad periodical, Egypt, 2011.**

7- " CHARACTERISTICS OF THE HYDRAULIC JUMP IN TRAPEZOIDAL CHANNEL SECTION", Sadiq Salman Muhsun, Journal of Environmental Studies [JES] Vol.9: PP. 53-36, **Suhad periodical, Egypt, 2012.**

8- ***"Variation of Discharge Coefficient of Spillway and Broad Crested Weir Due to the Effective of the Longitudinal Slope in a Non-Horizontal Channel"*** , Journal of Environmental Science and Engineering A 3 (2014) 287-295, doi: 10.17265/2162-5298/2014.05.007

9-**"Experimental Work and CFD model for Flowrate Estimating Over OGEE Spillway under Longitudinal Slope Effect"** , *International Journal of Civil Engineering and Technology* (IJCIET), Volume 9, Issue 13, December 2018, pp. 430–439

11- **"Removal of Inorganic Contaminants Using Manufacturing Porous Media"**, International Journal of Engineering & Technology (UAE), 7 (4.20) (2018) 142-145.

12- **"Theoretical, CFD simulation model and experimental study to predict the flowrate a cross a square edge broad crested weir depending on the end depth as control section"**, AWAM International Conference on Civil Engineering, **Springer Lecture Notes in Civil Engineering 53.**

13- "Simulation of two Phase Flow Contaminates Transport in Pipe Flow under Transient Laminar Flow Condition", Journal of Green Engineering, Vol. 10_6, 3861–3883, June 2020.

14-**"Simulation of 2-D Steady Seepage Flow and Contaminates Transportation through Harawa Dam Using CFD Model and Geo-Slope"**, Plant Archives Vol. 20, Supplement 2, 2020 pp. 604-612

15- **"Investigation of transient contaminates transport through piping flow system using Physical and CFD models"**, Journal of Engineering Research (Jer), Accepted.

16- **"2-D Steady Seepage Flow Model to Simulate the Contaminates Transportation through Homogeneous Earth Dam Using Geo-Studio Software"**, First International Conference on Engineering and Advanced Technology, ICEAT 2020, Feb. 2020. IOP Conf. Series: Materials Science and Engineering 870 (2020) 012028 doi:10.1088/1757-899X/870/1/012028, IOP Publishing

17- **"Tow Phase Flow Experimental Detection Method and CFD models – A review"**, Journal of Engineering and Sustainable Development (JEASD), Vol. 24, No. 05, September 2020, https://doi.org/10.31272/jeasd.24.5.2

18- **"Mathematical Analysis of 2-D Steady Seepage Flow and the Behavior of Contaminates Transportation through Homogeneous Earth Dam Using Comsol software"**, Journal of Engineering and Sustainable Development (JEASD), Vol. 24, No. 05, September 2020 , https://doi.org/10.31272/jeasd.24.5.3

19- **"Prediction and CFD Simulation of the Flow over a Curved Crump Weir under Different Longitudinal Slopes"**, International Journal of Civil Engineering, **18(9)**, pages1067–1076(2020), https://doi.org/10.1007/s40999-020-00527-2

20- **"Physical and CFD Simulated Models to Analyze the Contaminant Transport through Porous Media under Hydraulic Structures"**, KSCE Journal of Civil Engineering, http://link.springer.com/article/10.1007/s12205-020-1767-6.

21- **"CFD Simulated model and Experimental tests for Critical Depth and Flowrate Estimation over a Broad-Crested Weir under the Longitudinal Slope Effect",** International Journal of Environment and Waste Management, Acceptance.

22- **"CFD Simulation Model and Experimental Study to Implement a New Flowrate Formula for a Rounded Broad Crested Weir Considering the End Depth as Control Section", Periodicals of Engineering and Natural Sciences,** Acceptance.

PROFFESSIONAL DEVELOPMENT

- working at Consultant Bureau, college of engineering, university of Baghdad, 1997-1997.
- working in Al-Masar Consultant Bureau, 2000-2003.
- working in the national center for construction labs. and researches for more than 8 years.
- a very good experience in the computer with the following fields:
    1. **Microsoft office:** including word, excel, access, power point.
    2. **Photo Shop, Corel drew, Grapher, statistica**
    3. **Visual basic.**
    4. **AutoCAD**
    5. **Comsol**
    6. **ANSYS**

الإستاذ المساعد الدكتور
علي جبار كاظم
معاون العميد
للشؤون العلمية والدراسات العليا

جامعة المستنصرية / كلية الهندسة
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