



ALAA HUSSAIN ALSHAMI CURRICULUM VITA

Personal Detail

Full Name: Alaa Hussain Mehdi Mohamed Al Shami
Gender: Male
Nationality: Iraqi
Date of Birth: 7th Nov 1944, Blood Type +O
Civil status: Married
Profession: Civil Engineer
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Qualification

- **1983 PhD** in Civil Engineering Department / Hydraulics Structures / University of Sheffield (UK), High Education Ministry letter No. 14764 – 4.5.1983
- Title of Thesis " The Analysis and Design of Inflatable Hydraulic Structures"
- **1973 M.E.**(Master of Engineering) in Water Resource development// University of Roorkee, India, High Education ministry letter No. 28421 – 27.11.1973
- Title of Dissertation" Flow Around Bend In Open Channel"
- **1972 PG. Dip** (post Graduated Diploma in Engineering) University of Roorkee, India
- Title of project" Design of Hydropower Gravity Dam"
- **1968 B.Sc.** Bachelor degree in Civil Engineering Department / University of Mosul, University order No. 3/9/7297 dated 25.9.1968
- Title of the project" Design Multi story Building"

Training courses and certificates

- Certificate , Water Resource Development , University of Roorkee , (design of gravity dam), 1971-1972

- Certificate, of participated in scientific seminar with advanced technology #2 " Clean Water in Iraq held at the Royal scientific society, Amman Jordan Jun,2006
- Certificate in participated work shop in the capacity in principle investigator, 16-18, May 2005 Amman Jordan
- Certificate in River Engineering, Ministry of Construction, (JICA.) Tokyo ,Japan international Co- Operation Agency, July 29- 1976 To Nov. 27 , 1976 (Achikaya), Tokyo , Japan
- Training Certificate In water resource Management Over view of water control for competing uses, U.S. ARMY CORP of ENGINEERS, USA, Aug. 13-25 2005
- Training Certificate for Water Resources Management Tool for Senior Engineers, U.S. Army Corps of Engineers, USA Given 26Aug 2005, 8 Sep. 2005, (HEC).Davis, California
- Certificate, completed a course of using modern method in learning(6-10)10-2013, university of Baghdad , computing center
- Certificate in Method of Teaching in Nahrain University between 7-25 -2019 , Continuing Education Center, No. 10/6424 dated 19.5.2019
- Congratulations certificate from Elsevier, Thursday , October, 27,2022, Between 2019- 2021 you published an open access article with Elsevier receiving a total of 2131 downloads , your article was linked to the UN SDGs helping to tackle some of the words greatest challenges , the article : Feasibility analysis of mini hydropower and thermal power plant at Hindiya barrage in Iraq. , AIN SHAMES ENGINEERING JOURNAL, 12, (2021), 1513-1521

Licenses and Registrations

- *Member of Iraqi Engineers Union*; since 02/10/1968 with registering no. 5709
- **Teaba Engineering Consultation**, Registration according to the Iraqi Engineering Union Board, decision dated 4.3.2009 with No. 703

Works Professional Experience

- Date of employment 1-12- 1968 According to letter of D.G of Irrigation, No.6919 dated 31-12 1969
- Deputed to India to study M.E in Engineering according to letter of the ministry of irrigation number 8359 dated 31/7/1971
- Head of design department, THRTAR PROJECT 1973-1979 Considered the main following works
- a- Consulting the construction, the physical model, of Tharthar Regulator in Iraq, and Moscow Lab
- b- Construction the Steel Reinforcement of Tharthar Regulator
- Study leaf to UK according to the ministry of irrigation number 5724 dated 6/5/1979 and Ministry of High Education number 11/RE /35206 dated 21/9/1978
- Head of Study Department in the Center Studies and Engineering Designs 1985-1999, the main work are

- Consulting Engineer and Discussion the Results of the Physical Model of Hidiya Barrage In Green Nobel Lab - France
- Member of the Consulting Engineer in the Team of Al Adhaim Dam Construction
- Execution of many Economic Feasibility Reports of Irrigation Project
- Lecturer in in Baghdad University and Al Mustansirya University 1985 -1992 involved in teaching Water Resources and Fluid mechanics and Hydraulics
- External examiner of more than 30 Master and Ph.D. degrees
- Consultant Engineer According to the Engineering Union letter No. 4372 dated 23/5/1987
- Expert According to the letter 1183 / 7-6- 1997 Ministry of irrigation
- Assistant Prof. In Sakar Africa University, Nalot City and in the comprehensive Professional High Institute, Ghdamis , Libya 1999- 2003, Teaching Hydraulics and Soil Mechanics I and II and engaged in the following:-
 - a- Head of Civil Engineering Department
 - b- Head of Scientific Affairs Department
 - c- Head of Consulting Engineering group
- Expert, and head of the Hydrological Center in National Center of Water Management, Ministry of Water Resources 2003 - 2008.
- Retired In 31-12-2008 according to the letter, 3139- 4-1-2009
- Expert in Hydraulic and Mathematical Models Department, Ministry of Water Resources,2009- 2013,Personal contract with the ministry of water resources and the main works are
 - Hydraulic physical and Mathematical model for Alkarkh water supply intake station
 - Hydraulic model for Diyala Regulator concerning the scouring in stilling basin
 - Hydraulic physical and mathematical model for Ana intake water supply pumping station
 - Hydrological study For Greater Zab River
 - Consultation on the study of the sediments Up stream Pumping station of al-Northern Jazeera irrigation project held by college of Engineering in Mosul university,(Consulting Engineering Office),2010
 - Work in private sector as Consultant Engineer for al Nahrain University Consulting office ,submit the following works
 - a- Hydrological study of Balajo Khanaqin Regulator
 - b- Economical Feasibility study of Qra- Tapa irrigation project
 - c- Construction Regulator across EUPHRATES RIVER, in Chibayish marshland region
 - Lecturer in Al Farabi University College 197, 28-11-2013
 - Head of the Civil Department in the Al- Farabi University College according to Ministry of High Education, letter 1523 – 20-4- 2014 and extended according to the letter of the ministry of high education Number HM/M/11045 dated 14/9/2021 and farabi university letter number 1578 dated 21/9/2021
 - Assistant prof according to the Al Nahrain University No. 108 – 4-4-2021 considered from 18/2/2019
 - Participating as reviewer of al Rafidain Engineering Journal (ARE),Mosul University , Engineering college, and reviewing the following Manu scrip

- 1- Study of Scoured Around Cylindrical Bridge piers with Circular Opening (2020-4-15)
- 2- Hydraulic properties Downstream Multi Opening Sluice Gate (25-5-2020)
- 3- Using the immersed Vanes to Control the Sediment Entering Branch Channel with 30⁰ Angle with the Direction of the Main Channel 1-9-2020
- 4- Numerical and Physical Modeling to Dissipate the Flow Energy Spillway by using Row of Chute Blocks, Jan 2021
- 5- Improving productivity for varies types Of plant in different regime of Iraq, Baghdad university 16/9/2021 , 8Th college of engineering and 2nd international conference for college of engineering (COEC8) 2021
- 6-Evaluation master thesis's under title "assessing the impact of climate changes on irrigation requirements for cereal crops selected irrigation projects" according to the letter No. 15/1/2829 dated 19-9-2022 , University of Baghdad , college of engineering, high studies.
 - Member of the committees and Editorial board for the journal of water resource and geosciences, water recourse – national center for water resources management, ministry of water resources, according to the letter No. 3035 dated 6-12-2021(National center for water resources management)

Journal Publications

1. Effect of Construction Overflow Weir Across Euphrates River in the Chibayish Marshes Region. Research Journal of Applied Sciences, Engineering and Technology 15(2): 47-56, 2018.
2. Evaluation of The Hydrological Behavior in The Greater Zab River Basin. International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 13, December 2018.
3. Mathematical Model of Reservoir Routing For Spillway of Wadi Horan Dam International Journal of Civil Engineering and Technology (IJCIET)(Volume 10, Issue 02, February 2019, pp. 341–354,
4. Feasibility analysis of mini hydropower and thermal power plants at Hindiya barrage in Iraq Ain Shams Engineering Journal 12 (2021) 1513–1521
5. Possible Scenarios, of Iraqi Marshland Restoration for Future Water Resources Management,IOP Conf. Series: Materials Science and Engineering 978 (2020) 012011. doi:10.1088/1757-899X/978/1/012011
6. Hydraulic Irrigation Structures for Engineers Book ISBN:978-9922-619-16-3 2018, vol.1
7. Lecture Notes on tunneling (book) Al Furat center Ministry of irrigation , 1992
8. Stock- taking report for the preparation of the ward bank of Iraq country water resources assistance strategy (CWRAS) for republic of Iraq, Room, Oct. 2005

9. Evaluation of environmental impact of Tigris River pollution , TK Al – Shalchi, N Al – Ani ,A H Al Shami, Journal of engineering 12 (3) 844-861
10. Dependable Discharge for lower Diyala River Basin, A H Al Shami , Istanbul international solid water , water and wastewater Congress - 2013
11. Calculating Transvers Mixing Coefficient or Tigris River Sharp Bend thin Baghdad city, using Al Saidya Raw Sewage Discharge T K Al Shalchi, N al Ani , AH Al shami , 2007 Proceeding of the Congress- International Association for Hydraulic Research
12. Hydrological characteristics of Tigris River at Baghdad Sarai station. Ain Shames Engineering journal 14 (2023)101846
13. Mathematical model study of economical tunnel diameter of hydropower plant of Ahdiam dam in Iraq, Journal of engineering science and technology, Vol. (18) No.3(2023)1614-1623 . School of engineering, Taylor s University.
14. - Hydraulics structure, book with 480 pages , volume II, ISBN 978-9922-8587-4-6 and No. in the national library No. 2066- 2023

Supervised of the Graduation Projects in Partial Fulfillment of the Requirement of BS.C Degree in Civil Engineering

- 1- Construction Hydraulic Bench for Calculating Discharge by using Rectangular or Triangular over Flow Weir, 2016-2017(used now in Hydraulic Lab. of Civil department.in al-Frabi University College
- 2- Design of Box Culvert, 2017-2018
- 3- Design of Ogee Spillway in Wadi Horan 2018- 2019
- 4- The Dams Project in Iraq, 2019- 2020
- 5- Effect of Climate Factors Changes on the Potential Evapotranspiration and Water Duties of Crops in Shanafiya – Nasiriya Irrigation Project in Iraq, 2020- 2021
- 6- Design Mini Hydropower plant 2021-2022
- 7- Design of Chute spillway, 2022-2023