

Assist. Professor Dr. Alaa Hussain Al Shami

Department of Civil engineering

Assist. Professor in Civil engineering and Head of Department

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Education:

PhD, University of Sheffield- England, Year 1983

MSc, University of Roorkee- India, Year 1973

BSc, University of Mosul, Year 1968

Profile:

- 1-Date of employment at 1-12-1968 in the directorate of irrigation
- 2- Head of the design department in the Thrthar project 1973-1979
- 3- Head of study department in the Directorate of study and design office
- 4- Consulting expert in the Ahdaim dam up to 1999
- 5- Executing of many feasibility irrigation project
- 6- Assist. Professor in Sakar Africa University and head of civil department up to 2003
- 7- Expert and head of hydrological engineering center in the water management center up to 2008
- 8- Expert in the hydraulic modeling department in the general directorate of design and study office 2009 up to 2013
- 9- Member of establishing the Alfarabi university college and teaching staff from 2013 up to now

Teaching

The teaching subjects are following:-

1-Water Resources:- The main lectures are

- Water requirement for the crops
- Hydraulic design of Chazy and manning equations
- Design of irrigation and drainage channels
- Design of field drain spacing
- Restoration of lands from the salt
- Design of surface irrigation
- Design of sprinkler and drip irrigation

2- Fluid mechanics and hydraulics

The main lectures are:-

Properties of fluids, Pressure of fluid and type of gages, Fluid statics , Forces on submerged bodies ,(vertical, inclined , and curve gates), continuity equation, energy equation momentum equation , flow in pipes , (parallel and series) , head losses, Moody diagram, dimensional analysis and hydraulic models, and flow in open channel

Research Focus:-

Water resources

Hydrology and ground water

Hydraulic structures

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 Ahami , 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

Affiliations/Activities

- 1- Participating as reviewer of alrafidain engineering journal (ARE), Mosul University, engineering college
- 2- Member of water resource journal at ministry of water resources
- 3- Member of engineering union, since 2-10-1968 with registering no.5709
- 4- Teeba Consulting Engineer office, with registration No. 703 at 4-3-2009