Curriculum Vita

Personal information's

Name: Ahmed Hameed Shihab
Date of Birth and location: 1st of October, 1981, Iraq
Current city: Wasit.

Contact Information's

Email: Ahmed.Hameed@uowasit.edu.iq
Phone: +9647707153710

Educational History

PhD: University of Baghdad, College of Engineering, Environmental Engineering Department, 2021, with final average very good .

Specialization:

(Protection of water resources from contaminants spilled into groundwater using permeable reactive barrier).

Publications:

- Green synthesis for novel sorbent of sand coated with (Ca/Al)-ayered double hydroxide for the removal of toxic dye from aqueous environment.
- Using novel coated sand as reactive bed in permeable barrier for elimination of methyl orange dye from groundwater.

MSc: University of Baghdad, College of Engineering, Environmental Engineering Department, 2011, with final average 77% & Rank 4th of 9 students.

***Specialization*:**

(Removal of 4-chlorophenol from wastewater using a pilot-scale advanced oxidation process).

Publications:

Removal of 4-chlorophenol from wastewater using a pilot-scale advanced oxidation process.

BSc: University of Baghdad, College of Engineering, Water Resources Engineering Department, 2005, with final average 74% & Rank 3ed of 81 students.

Employment History.

- Chief Engineer in Ministry of Water Resources /Environmental Policies Department / Ministry centre, 2005– 2024, 19 years of working experience.
- Lecturer in Ministry of Higher Education / Wasit University / Civil Engineering Department, 2024– Present.

Tasks and responsibilities:

- Assessment of studies addressing groundwater and surface-water contamination, including doctoral research, with an emphasis on translating findings into applied practice.
- Applying phytotechnology to treat wastewater and restore marshlands as an alternative water source, in partnership with—and funded by—the World Food Programme (WFP).
- Revising national standards for drinking-water quality.
- Revising environmental regulations governing pollutants that affect water resources, especially discharges to the marshlands.
- Establishing a comprehensive monitoring framework to assess surface-water quality.
- Detecting environmental changes in the Iraqi Marshes resulting from replacing freshwater with saline drainage water.
- Deploying solar energy as an alternative power source for groundwater pumping and as supplemental power for irrigation pumping stations.
- Participating in a team that follows IAEA guidelines on using environmental isotopes and natural radioactivity to assess groundwater quality.
- Continuously monitoring the quality and quantity of water in the marshes.
- Monitoring wastewater discharges from facilities that affect water resources.
- Monitoring oil contamination in wastewater attributable to activities at oil refineries, power plants, and other municipal facilities (e.g., water treatment plants) along the Tigris and Euphrates rivers.

Training courses, workshops..etc.

- Training Course on Combating Desertification in Arab Countries **(China),** September 2–22, 2024.
- Essential Quality Assured Data and Information for Integrated Urban Water Management (in collaboration with **UNESCO, WMO, UNEP**, and GEO), 2021.
- Regional Initiative for the Assessment of Climate Change Impacts on Water Resources and Socio-Economic Vulnerability in the Arab Region (RICCAR) (in collaboration with ESCWA and partners, **Lebanon**), 2015–2017.
- International Visitor Leadership Program (IVLP) – Focus on Marshland Preservation (**USA**), 2015.
- Governance in Managing Water Resources and the Environment (**Turkey**), 2014.
- World Water Week (**Sweden**), 2013.
- Support Cooperation on Agricultural Water Resources Management in the Lower Mesopotamia – Project Design and Management for Professionals in the Water Sector (**Kish Island, Iran**), 2013.
- Short Course on Industrial Effluents Treatment and Residuals Management (**Netherlands**), 2013.