

CURRICULUM VITAE

1. Personal Information

- Name: HOSSAM ELDIN AHMED ABDELAZIZ
- Date of birth: 1st October 1991
- Nationality: Egyptian
- Profession: Assistant Lecturer in Civil and Environmental Engineering at Delta Higher institute for Engineering, Delta Academy
- Phone: Egypt (+2) 01017224901
- E-mail: eng.hossamahmed8@gmail.com
- Marital status: Married
- Military situation: Fulfilled
- Place of birth: Mansoura, Egypt

2. Graduate Education

- ✓ Ph.D. Student at Public Works Department, Faculty of Engineering, Cairo University from 1/2/2022 until now. I am studying in the Environmental Engineering branch. I have finished a preliminary year of Ph.D. with a GPA of 3.4.
- ✓ Master's Degree (9/2016 – 3/2021), Civil Engineering Department (Public Works), Faculty of Engineering, Mansoura University, Sanitary and Environmental Engineering Division, Egypt.

My thesis title: The Performance of Sequencing Batch Reactor (SBR) Using Attached Biofilm.

- ✓ Bachelor of civil engineering (9/2008 – 7/2013), Delta Higher Institute for Engineering and Technology, Delta Academy, Egypt

Grade: Excellent with Honor (95%), Ranked 2nd.

3. Computer Skills

- Microsoft office (Word , Excel, and PowerPoint).
- Modeling and Simulation of wastewater treatment plants using GPS-X, and BioWin.
- Cost analysis of wastewater treatment plants using CapdetWorks.
- Bently Hydraulics software (Water CAD – Sewer CAD – Water Hammer).

4. Education Experience

I am working as an assistant lecturer for undergraduate students at Delta Higher Institute for Engineering and Technology from 2013 till now.

List of Courses:

- Water and Wastewater Treatment Engineering.
- Hydrology and water resources.
- Hydraulics of open channel and pipe flow.
- Irrigation & Drainage Engineering.
- Graduation Project of Sanitary and Environmental Engineering.

5. Research activities

I am a reviewer for the following journals:

- Water Research, Elsevier.
- Water science and Technology, IWA.
- Journal of Environmental Engineering, ASCE.
- Journal of Cleaner Production, Elsevier.
- Journal of Water Practice and Technology, IWA.

My area of expertise includes bioelectrochemical systems (BES), biological treatment of wastewater, anaerobic treatment, modeling and simulation of wastewater treatment plants, anaerobic membrane bioreactor and biogas production, nutrients recovery, sludge treatment, greenhouse gas emissions, circular economy, and life cycle assessment.

6. Work Experience

Water/Wastewater Treatment Process Engineer. I have more than five years of experience in the following:

- Designing of water and wastewater treatment plants using different technologies.

- Modeling and optimization of wastewater treatment plants using BioWin software.
- Hydraulic analysis and designing of water and sewage networks.

7. Language proficiency

Arabic: Mother Tongue.

English: Excellent command.

8. Publications

1. Upgrading sequencing batch reactor using attached biofilm. Water Environment Research, Volume 93, Issue 9, 2021, DOI: 10.1002/wer.1556 .
2. Effect of increasing organic loading rate on the performance of conventional and modified sequencing batch reactors. Mansoura Engineering Journal (MEJ), Volume 45, Issue 4, 2020.