

Curriculum Vitae

Doctor : Moustafa Samir Abdel Fattah Darweesh

Assistant Professor

"Civil Eng. Dept., Faculty of Eng., Assiut Univ., Assiut. Egypt"

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- **Name:** Moustafa Samir Abdel Fattah Darweesh
 - **Gender :** Male
 - **Present Status:** Assistant Professor, Civil Engineering Department, Faculty of Engineering, Assiut University, 71516 Assiut, Egypt.
 - **Nationality:** Egyptian.
 - **Date of Birth:** September 25, 1982.
 - **Place of Birth:** Tanta, Gharbiya, Egypt.
 - **Marital Status:** Married and have 3 children
 - **Permanent Mailing Address:** Civil Engineering Department, Faculty of Engineering, Assiut University, 71516 Assiut, Egypt.
 - **E-mail Address:** eng_taftaf82@yahoo.com

A - Scientific Transcript

- **B.Sc. "Civil Engineering"** at June 2004, from Faculty of Engineering, Assiut University, Assiut, Egypt, with accumulative average grade "Very Good with Honor's Degree" and rank "The Second" (84.25 %)
- **M.Sc. "Environmental Hydraulic"** The Master with the title "**Hydraulic behavior of polluted water jet in open channel flow**", the grade of the Master courses is 'Distinction degree (92.75 %), Civil Engineering Department, Faculty of Engineering, Assiut Univ., Assiut, Egypt, February, 2010.
- **Ph.D. "Environmental Hydraulic"** The doctorate with the title "**Modeling of some parameters influencing water hammer phenomenon for Assiut city water distribution network**", the grade of the Doctorate courses is 'Very good degree (88.8 %), Civil Engineering Department, Faculty of Engineering, Assiut Univ., Assiut, Egypt, July, 2014.

B – Career Transcript

- **Assistant Professor;** at Civil Engineering Department, College of Engineering, Northern Border University, KSA, from 10/2016 till now as full-time.

- **Assistant Professor;** at Civil Engineering Department, El Minya Higher Institute of Engineering & Technology, from 7/2014 to 10/2016 as part-time.
- **Assistant Professor;** at Civil Engineering Department, Faculty of Engineering, Minia University, from 9/2015 to 7/2016 as part-time.
- **Assistant Professor;** at Civil Engineering Department, Faculty of Engineering, Assiut University, from 7/2014 to 10/2016 as full-time.
- **Design Engineer;** (from December 2004 till 2016 as part-time work) at Consulting Construction office, Assiut, for design of water networks, and Water Structures, besides design of building constructions and foundations.
- **Assistant Lecturer;** at Civil Engineering Department, Faculty of Engineering, Assiut University, from 2/2010 to 7/2014.
- **Demonstrator;** at Civil Engineering Department, Faculty of Engineering, Assiut University, from 11/2004.
- ✿ Design many of ground and high elevated tanks in Egypt.
- ✿ Design of water hammer protection system for three transmission pipelines (Lengths = 8210, 7225 and 12305 meters) in Arar, Saudi Arabia, February, 2015.
- ✿ Design of water hammer protection system for seven transmission pipelines (Lengths = 630, 1845, 2255, 2640, 4930, 6055 and 13010 meters) in Zagazig city, Egypt, January, 2020.

C – Scientific Activities

□ **Teaching;**

1- Assisting in teaching the following **under-graduate** courses:

Civil Engineering Drawing.	1 st year Civil
Irrigation and Agricultural Engineering.	2 nd year Civil
Fundamentals of Engineering Fluid Mechanics and Hydraulics.	2 nd year Civil
Fundamentals of Fluid Mechanics.	2 nd year Civil
Open Channel Hydraulics and Hydraulic Machines.	3 rd year Civil
Water and Wastewater Treatment.	3 rd year Civil
Hydrology and Water Resources Engineering.	3 rd year Civil
Harbors Engineering and Internal Navigation.	4 th year Civil
Irrigation Works Design (1).	4 th year Civil
Irrigation Works Design (2).	4 th year Civil
Water Supply and Sewerage Systems.	4 th year Civil
Environmental Engineering.	4 th year Civil
Design of Hydraulic Structures.	4 th year Civil

Participating in B. Sc. Final year Projects for design of water structures, Hydraulics, and Management of Projects.

2- Assisting in teaching the following **post-graduate** courses:

- Advanced Hydraulics (1).
- Advanced Hydraulics (2).
- Study of Hydraulic Modeling.

- Design of Hydraulic Modeling.

□ **Supervision of Scientific Researches:**

- 1) M.Sc. Thesis in 2022, Titled: **“Develop a New Groundwater Monitoring System for Grand Hydraulic Structure Projects Using Soft Computing Technique”** Submitted to Dept. of Civil Eng., Assiut University by Eng. Ahmed Huessien Suleiman.
- 2) M.Sc. Thesis in 2019, Titled: **“Hydraulic Performance Assessment for Improved Irrigation Systems”** Submitted to Dept. of Civil Eng., Assiut University by Eng. Mahmoud Sabry.
- 3) M.Sc. Thesis in 2019, Titled: **“Effect of some Parameters on Scour around Bridge Piers”** Submitted to Dept. of Civil Eng., Assiut University by Eng. Hend Hussien Saleh.
- 4) M.Sc. Thesis in 2019, Titled: **“An Investigation of Ground Subsidence around Deteriorated Sewer Pipes Due to Groundwater Infiltration”** Submitted to Dept. of Civil Eng., Assiut University by Eng. Shimaa Rabey.
- 5) M.Sc. Thesis in 2014, Titled: **“Optimum Design of Water Distribution Network – Case Study Elminia City Network”** Submitted to Dept. of Civil Eng., Assiut University by Eng. Mohamed Mamdouh Yusuf.

□ **List of Publications:**

- 1) Darweesh, M. S. (2022) **“Predicting the head leakage behaviour of cracks in pipe elbows”** *Water SA*, 48 (1), 56–61.
- 2) Mohamed, H. I., Rabey, S. H. and Darweesh, M. S. (2022) **“Laboratory investigation of ground surface settlement caused by erosion around a leaking pipe”** *Journal of Pipeline Systems Engineering and Practice*, ASCE, 13 (1), 04021080-1– 04021062-10.
- 3) Darweesh, M. S. (2021) **“Behaviour of UHMWPE material in water supply systems considering water quality”** *Journal of Pipeline Systems Engineering and Practice*, ASCE, 12 (4), 04021062-1– 04021062-8.
- 4) Darweesh, M. S. (2021) **“Elevated tanks effect on transient pressures: case study”** *Journal of Water Sanitation and Hygiene for Development*, 11 (4), 629– 637.
- 5) Darweesh, M. S. (2020) **“Impact of optimized pump scheduling on water quality in distribution systems”** *Journal of Pipeline Systems Engineering and Practice*, ASCE, 11 (4), 05020004-1– 05020004-9.
- 6) Darweesh, M. S. and Hussien, O. S. (2020) **“Numerical investigation of leakage behaviour in long radius elbows”** *Water SA*, 46 (1), 38–43.
- 7) Abozeid, G., Darweesh, M. S. and Saleh, H. H. (2020) **“Reduction of local scour around oblong bridge piers using slots”** *JAET, Journal of Advanced Engineering Trends*, 39 (1), 45–62.

- 8) Hassan I. Mohamed, Elham W., **Darweesh M. S.** and Sabry M. (2019) “**Hydraulic performance of improved irrigation system**” *JES, Journal of Engineering Science*, Faculty of Engineering, Assiut University, Assiut, Egypt, May, 47 (3), 296–308.
- 9) Hassan I. M., **Darweesh, M. S.** and Shimaa, H. R. (2019) “**An investigation of ground subsidence above deteriorated sewer pipes due to groundwater infiltration**” 5th Young Researchers Conference for Basic and Engineering Sciences Sector, South Valley University, Egypt, (26-27) March.
- 10) **Darweesh, M. S.** (2018) “**Impact of variable speed pumps on water quality in distribution systems**” *Water SA*, 44 (3), 419–427.
- 11) **Darweesh, M. S.** (2018) “**Assessment of variable speed pumps in water distribution systems considering water leakage and transient operations**” *Journal of Water Supply: Research and Technology—AQUA*, 67 (1), 99–108.
- 12) Ali, N. A., Abozeid, G., **Darweesh, M. S.** and Mamdouh M. (2016) “**Simplification of water supply systems for producing more optimal pump schedules in less times**” *JES, Journal of Engineering Science*, Faculty of Engineering, Assiut University, Assiut, Egypt, July, 44 (4), 351–362.
- 13) Ali, N. A., Abozeid, G., **Darweesh, M. S.** and Mamdouh M. (2015) “**Evaluation of rehabilitation solutions for performance of water pipes network (case study-El-Minia new city network)**” *JES, Journal of Engineering Science*, Faculty of Engineering, Assiut University, Assiut, Egypt, July, 43 (5), 644–662.
- 14) Ali, N. A., Abozeid, G. and **Darweesh, M. S.** (2014) “**Elucidation of different protection methods against water hammer in pipes network of Assiut city**” 10th International conference on the Role of Engineering towards a Better Environment (RETBE’14), Alexandria, Egypt, (15-17) December.
- 15) Ali, N. A., Abozeid, G. and **Darweesh, M. S.** (2013) “**Studying of water hammer in water supply pipes network with different abnormal operation conditions (case study-Assiut city network)**” *JES, Journal of Engineering Science*, Faculty of Engineering, Assiut University, Assiut, Egypt, November, 41 (6), 2036–2054.
- 16) Ali, N. A., Abozeid, G. and **Darweesh, M. S.** (2013) “**Analysis of different protection methods against water hammer on water supply network (case study-Assiut city network)**” *JES, Journal of Engineering Science*, Faculty of Engineering, Assiut University, Assiut, Egypt, November, 41 (6), 2021–2035.
- 17) Ali, N. A., Abozeid, G., Ali A. M. and **Darweesh, M. S.** (2010) “**Hydraulics of surface polluted water jet in open channel flow**” *JES, Journal of Engineering Science*, Faculty of Engineering, Assiut University, Assiut, Egypt, January, 38 (1), 71–84.

□ **Training;**

Training on site investigations and construction inspections during the summer vacation before graduate, at the construction company (Arab Contractors; Egyptian company for constructions),

D – Awards and Honors

- **Award of Prof. Hussein Kamal Eldeen in "Geodesy" in 2004**
- **Honor at the Syndicate of Engineering, Cairo, Egypt, in 2005**

- Honor at the Syndicate of Engineering, Assiut, Egypt, in 2005

E – Major Fields of Interest

Civil Engineering in one of the following topics:-

- Design of Water Structures.
- Water Resources Management.
- Environmental Engineering.
- Hydraulics.
- Water Hammer.
- Water Quality.
- Water Supply Systems.
- Pumps.

Permanent Mailing Address:

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