

CURRICULUM VITAE



Civil Engineering Department Higher Institute for Engineering and Technology, New Damietta. Ministry of Higher Education, Egypt.

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Mohamed ELSayed Ahmed Gabr

Current position: Associated Professor, Head of Civil Engineering Department, Higher Institute for Engineering and Technology, New Damietta

Date and place of birth 16 / 1 / 1969 – Port-Said, Egypt
Nationality Egyptian
Religion Muslim
Marital Status Married

EDUCATIONAL RECORD

Institution Suez Canal University, Faculty of Engineering
Department Civil Engineering
Location Port Said, Egypt
Major field of study Civil Engineering
Degree B. Sc
General grade Very good
Years (from-to) 1986-1991

Institution Suez Canal University, Faculty of Engineering
Department Civil Engineering
Location Port Said, Egypt
Major field of study Civil Engineering
Degree M. Sc. Degree
Research title “The Ideal Design for Lining and Protection of EL-Salam Canal”
Years (from-to) 1994-1997

Institution Cairo University, Faculty of Engineering
Department Irrigation and Hydraulics
Location Giza, Egypt
Major field of study Civil Engineering
Degree Higher Diploma
Research title “Shared water resources”
Years (from-to) 1999-2000

Institution	Suez Canal University, Faculty of Engineering
Department	Civil Engineering
Location	Port Said, Egypt
Major field of study	Civil Engineering
Degree	Ph.D.
Research title (from-to)	“Generation and Transport of Sediments by Severe Flow Conditions 1999-2003

Major Field of Research

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| 1- Water Resources Engineering. | 2- Environmental Engineering. |
| 3- Irrigation and Drainage Engineering. | 4- Hydraulics and Hydrology. |
| 5- Harbor Engineering and coastal Engineering. | 6- Waste management. |
| 7- Water quality | 8- Construction Engineering Drawings |

Professional Activities

EMPLOYMENT 1

Name of employer	Ministry of Water Resources & Irrigation, Water Resources, Irrigation, and national Infrastructure Sector in North Sinai
Address of employer	North Sinai, Egypt
Type of organization	Governmental
Activities	Construction of El-Sheikh Gaber Canal and its water structures in Sinai to reclaim 400 thousand faddans.
Positions	Supervisor Infrastructure Engineer (1994- 2003)

EMPLOYMENT 2

Name of employer	Sabha High Technical Institution, Department of Civil Engineering.
Address of employer	Sabha, Libya, P.O. 19078. Fax: 021.3602894
Type of organization	Governmental.
Activities	Educating under-graduates to be awarded the Engineering B. Sc.
Positions	Assistant Professor in Civil Engineering Department (2004-2009)

EMPLOYMENT 3

Name of employer	Ministry of Water Resources & Irrigation
Address of employer	North Sinai, Egypt
Type of organization	Governmental
Activities	Study problems facing the construction of the North Sinai development project to reclaim 400 thousand faddans regarding soil salinity, water quality, soil drainage. In addition, preparing the documents of tendering of irrigation and drainage works.
Positions	Senior Infrastructure Engineer (2009- 2015).

EMPLOYMENT 4

Name of employer	Higher Institute for Engineering and Technology, New Damietta,
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Address of employer	Ministry of Higher Education, New Damietta, Egypt. P.O. 42523
Type of organization	Governmental
Activities	Educating under-graduates to be awarded the Engineering B. Sc.
Positions	Assistant professor in Civil Engineering Department (2015 up till now)

Professional Experience

Research Interest and Expertise

- 1- Water Resources Engineering.
- 2- Hydraulics and Hydrology.
- 3- Water quality
- 4- Irrigation and Drainage Engineering.
- 5- Environmental Engineering.
- 6- Harbor Engineering and coastal Engineering.
- 7- Construction Engineering Drawings
- 8- Waste management.

Co-Supervised M. Sc. Students

- 1- Madlen Mohamed Salam "Treatment of Drainage wastewater using Floating wetland", Public Works Engineering Department, Faculty of Engineering, Mansoura University, Egypt.
Status: Ongoing.

Research Projects

1-North Sinai Development Project (1994-2012)

Activates:

- Supervision of Earthworks, lining works, steel works, road construction and structural works for El-Salam canal in North Sinai
- Quantity surveyor for the supervised contracts.
- Preparation of contracts and tender documents.
- Design and supervision of Head regulators across El-Sheikh Gaber Main Canal.

2- Joint Technical Commission Projects for Nile Water between Egypt and Sudan (January 2013 -December 2013)

Activates:

Managing and supervising the works of the Joint Technical Commission for Nile Water between Egypt and Sudan: Measurement of water quality, water levels, and discharges in Juba, Malakal, Halat Dulayb, Milot, and Wow at South Sudan and carrying out the periodic maintenance for the water monitoring stations and measurements tools.

3- Design, and Supervision of New Dairout Group of Regulators (NDGR), Ministry of water resources and irrigation (2015).

Activates:

- i. Following-up the study of the basic and detailed design of the New Dairout Group of Regulators (NDGR) project with the Japanese Sanyo Consulting Office, including surface and ground water quality and its environmental aspects.
- ii. Preparation of the consultancy services contract for the project of establishing the New Dairout Group of Regulators (NDGR) according to JICA standards.

International training courses:

Participating in the training course about Water Quality Early Warning System for Nile River during the period from 22/11/2015 to 28/11/2015 in Delft Hydraulics Institute, Netherlands

PUBLICATIONS

- (1) **Gabr, M.**, and Yacoub, S. (2003) Effect of Dam on River Regime", the 8th International conference for river sedimentations, November 2003, Cairo, Egypt.
- (2) **Gabr, M.** (2003) A Numerical Model for Flow and Sediment Transport on Alluvial River Bends. The 8th International conference for river sedimentation November 2003, Cairo, Egypt.
- (3) **Gabr, M.**, ElSabhawy, M., Ali R., et.al (2008) Defects Asphalt Roads Fezzan Region and Ways to Repair and Maintenance, the first conference of the building in the desert areas, December 2008, faculty of engineering, Sabha University, Libya.
- (4) **Gabr, M, and ELZahar, M.** (2018) Study of the quality of irrigation water in South-East El-Kantara Canal, North Sinai, Egypt. International Journal of Environmental Science and Development, Vol.9, NO. 6, 142-146.
- (5) **Gabr, M.** (2018) Magnitude and characteristics of sand dunes encroachment towards El-Sheikh Gaber Canal, North Sinai, Egypt. Twenty-first International Water Technology Conference, IWTC21 Ismailia, pp. 43-55.
- (6) **Gabr, M.** (2018) Wastewater reuse standards for agriculture irrigation in Egypt. Twenty-first International Water Technology Conference, IWTC21 Ismailia, pp. 234-246.
- (7) **Gabr, M.** (2018) Study of lowlands drainage problems, case study Kamal El-Den Hessen reclaimed area, North Sinai, Egypt. Journal of Water Resource and Protection, Vol. 10, 857-869.
- (8) **Gabr, M.** (2018) Evaluation of irrigation water, drainage water, soil salinity, and groundwater for sustainable cultivation. Journal of Irrigation & Drainage Systems Engineering, Vol.7, No.3.
- (9) **Gabr, M.** (2019) Drainage management problems evaluation: case study Baloza and EL-Farama Drains, North Sinai, Egypt. Journal of Water Resource and Protection, Vol. 11, 675-689.
- (10) **Gabr, M.** (2020) Design Methodology of a New Surface Flow Constructed Wetland System, Case Study: East South EL-Kantara Region North Sinai, Egypt. Port-Said Engineering Research Journal, Vol. 24, No. 1, pp: 23-34.
- (11) **Gabr, M.** (2020) Study of reclaimed water reuse standards and prospects in irrigation in Egypt" Port-Said Engineering Research Journal, Vol. 24, No. 1, pp: 65-75.
- (12) El-Ghandour H.A, Elbeltag E, Gabr, M. (2020) Design of irrigation canals with minimum overall cost using particle swarm optimization, case study: El-Sheikh Gaber, North Sinai Peninsula, Egypt. Journal of Hydroinformatics, Accepted article. DOI: 10.2166/hydro.2020.199.

- (13) **Gabr, M.**, Sousa H, Fattouh, E. (2020) Groundwater quality evaluation for drinking and irrigation uses in Dayrout city Upper Egypt. Ain Shams Engineering Journal, Accepted article. DOI: 10.1016/j.asej.2020.05.010.
- (14) **Gabr, M.** (2020) A roadmap for establishment of an early warning system for Nile water quality in Egypt. Port-Said Engineering Research Journal (PSERJ). Accepted article.
- (15) **Gabr, M.** (2020) Proposing a constructed wetland within the branch drains network to treat degraded drainage water in Tina Plain, North Sinai, Egypt. Archives of Agronomy and Soil Science Journal. Accepted article.
- (16) **Gabr, M.** Management of irrigation requirements using FAO-CROPWAT 8.0 model: A case study of Egypt. Model. Earth Syst. Environ. (2021). <https://doi.org/10.1007/s40808-021-01268-4>.
- (17) Ahmed A., Wan L., Nadhir A., Ahmed E., Mustafa E., Hesham N., Gabr M. 2021. Farmers' Awareness in the Context of Climate Change: An Underutilized Way for Ensuring Sustainable Farmland Adaptation and Surface Water Quality. Sustainability **2021**, 13, 11802
- (18) **Gabr, M.E.** Design methodology for sewage water treatment system comprised of Imhoff's tank and a subsurface horizontal flow constructed wetland: a case study Dakhla Oasis, Egypt, Journal of Environmental Science and Health, Part A, **2022**. DOI: 10.1080/10934529.2022.2026735.
- (19) Madleen, S.; **Gabr, M.E.**; Mohamed, M.; Hani M. Random Forest modelling and evaluation of the performance of a full-scale subsurface constructed wetland plant in Egypt. Ain Shams Engineering Journal, **2022**, 13 (6), 101778.

LANGUAGE PROFICIENCY

Arabic	Mother tongue
English	Very Good

COMPUTER SKILLS

large experience in internet research
 High performance in using software (Auto Cad, SAP, WaterCAD, SewerCAD, MS Project, EPNET, ...).