

CURRICULUM VITAE



Mohamed EL-Sayed Ahmed Gabr
Assoc. Prof., Civil Engineering Department,
Higher Institute for Engineering and
Technology, New Damietta. Ministry of
Higher Education, Egypt.

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ORCID ID : 0000- 0003-2448- 610X

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
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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 “Generation and Transport of Sediments by Severe Flow Conditions
(from-to) 1999-2003

Major Field of Research

- 1- Water Resources management.
- 2- Environmental Engineering.
- 3- Irrigation and hydrology.
- 4- Open channel Hydraulics
- 5- Harbor Engineering and coastal Engineering.
- 6- Waste water treatment.
- 7- Water quality
- 8- Groundwater modelling
- 9- Climate changes
- 10- GIS and machine learning
- 11- Rain water harvesting.
- 12- Constructed wetlands.

Professional Activities

Employment 4

Name of employer Higher Institute for Engineering and Technology, New Damietta,
 Ministry of Higher Education,
 Address of employer New Damietta, Egypt. P.O. 42523
 Type of organization Governmental
 Activities Educating under-graduates to be awarded the Engineering B. Sc.
 Current Position Associated Professor, Head Civil Engineering Department.

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 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 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)

Professional Experience

Educational Expertise

- 1- Water Resources management.
- 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.
- 9- Soil Mechanics and Foundation
- 10- Foundation 2.
- 11- Geology and Soil Mechanics
- 12- Reinforced Concrete Buildings Technology.
- 13- Fluid mechanics.
- 14- Computer applications in Civil Engineering (SAP 2000, EPANET, Excel, GPS-X,Auto Cad,.....)
- 15- Sanitary Engineering.
- 16- Environmental Pollution Control

Under graduate student projects

- 1- Soil and foundation projects (complete design of R.C. buildings Skelton, shallow foundations, and/or deep foundations.....)
- 2- Sanitary and environment projects (Design of water treatment plants – design of drinking water networks, design of stormwater sewers, design of wastewater networks, design of wastewater treatment)
- 3- Water structures (design of R.C. Retaining walls, Regulators, Bridge, Culverts, Syphons, Aqueducts, irrigation and drainage networks)

Co-Supervised PhD Students

- 1- Amira Mahmoud El Shorbagy " Utilizing the Harvesting of Rainwater to Provide Safe Road Transportation Efficiency and Increase Water Resources in the Context of Climatic Change", Civil Engineering Department, Faculty of Engineering, Minia University, Minia, 61519, Egypt
Status: ongoing.

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: **Awarded 2022.**

2- Maha Yousef Alotaibi "Food security and sustainable management of water-energy-food nexus in Kuwait." College of Graduate Studies, Environmental Sciences, Kuwait.

Status: **Awarded 2022.**

3- Ahmed Ali El Sayed Ahmed "Groundwater quality assessment for different uses in Wadi El Natrun city using GIS and water quality index" Irrigation and Hydraulics Department, Faculty of Engineering, Postgraduate Studies, Ain Sham University.

Status: ongoing.

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:

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.

Preparation of the consultancy services contract for the project of establishing the New Dairout Group of Regulators (NDGR) according to JICA standards.

North Sinai Development Project to reclaim and cultivate 400000 acres (1994-2012)

Activates:

Water resources management

Study water quality for irrigation purposes

Study soil salinity

Study crop water requirement

Solve drainage problems

Monitoring water levels and quality.

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

Q1 Publications

Mohamed Elsayed Gabr (2023) Land reclamation projects in the Egyptian Western Desert: management of 1.5 million acres of groundwater irrigation, *Water International*, 48:2, 240-258, DOI: 10.1080/02508060.2023.2185745.

Alotaibi, M., Alhajeri, N. S., Al-Fadhli, F. M., Al Jabri, S., & **Gabr, M.E.** (2023). Impact of climate change on crop irrigation requirements in arid regions. *Water Resources Management*. <https://doi.org/10.1007/s11269-023-03465-5>.

Gabr, M.E., El-Ghandour, H.A. & Elabd, S.M. Prospective of the utilization of rainfall in coastal regions in the context of climatic changes: case study of Egypt. *Appl Water Sci* 13, 19 (2023). <https://doi.org/10.1007/s13201-022-01835-9>

El-Rawy, M., Batelaan, O., Al-Arifi, N., Alotaibi, A., Abdalla, F., & **Gabr, M. E.** (2023). Climate change impacts on water resources in arid and semi-arid regions: A case study in Saudi Arabia. *Water*, 15(3), 606. <https://doi.org/10.3390/w1503060>.

El-Rawy, M.; Fathi, H.; Zijl, W.; Alshehri, F.; Almadani, S.; Zaidi, F.K.; Aldawsri, M.; **Gabr, M.E.** Potential Effects of Climate Change on Agricultural Water Resources in Riyadh Region, Saudi Arabia. *Sustainability* 2023, 15, 9513. <https://doi.org/10.3390/su15129513>.

Gamal, G.; Abdeldayem, O.M.; Elattar, H.; Hendy, S.; **Gabr, M.E.**; Mostafa, M.K. Remote Sensing Surveillance of NO₂, SO₂, CO, and AOD along the Suez Canal Pre- and Post-COVID-19 Lockdown Periods and during the Blockage. *Sustainability* 2023, 15, 9362. <https://doi.org/10.3390/su15129362>.

Abduljaleel, Y.; Awad, A.; Al-Ansari, N.; Salem, A.; Negm, A.; **Gabr, M.E.** Assessment of Subsurface Drainage Strategies Using DRAINMOD Model for Sustainable Agriculture: A Review. Sustainability 2023, 15, 1355. <https://doi.org/10.3390/su15021355>.

Gabr, M.E.; El Shorbagy, A.M.; Faheem, H.B. Utilizing the Harvesting of Rainwater to Provide Safe Road Transportation Efficiency and Increase Water Resources in the Context of Climatic Change. Sustainability 2022, 14, 9656. <https://doi.org/10.3390/su14159656>.

Gabr, M.E.; Salem, M.; Mahanna, H.; Mossad, M. Floating Wetlands for Sustainable Drainage Wastewater Treatment. Sustainability 2022, 14, 6101. <https://doi.org/10.3390/su14106101>.

Gabr, M. E. (2022). 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, 57(1), 52–64. <https://doi.org/10.1080/10934529.2022.2026735>.

Madleen Salem, **Mohamed EL-Sayed Gabr**, Mohamed Mossad, Hani Mahanna, Random Forest modelling and evaluation of the performance of a full-scale subsurface constructed wetland plant in Egypt, Ain Shams Engineering Journal, Volume 13, Issue 6, 2022, 101778.

Gabr, Mohamed EL-Sayed (2021) Management of Irrigation Requirements Using FAO-CROPWAT 8.0 Model: A Case Study of Egypt." Modeling Earth Systems and Environment (2021): 1-16.

Gabr, ME., Soussa, H., & Fattouh, E. (2021). Groundwater quality evaluation for drinking and irrigation uses in Dayrout city Upper Egypt. Ain Shams Engineering Journal, 12(1), 327–340. <https://doi.org/10.1016/j.asej.2020.05.010>.

Mohamed El-Sayed Gabr (2021) 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, 67:11, 1479-1494, DOI: 10.1080/03650340.2020.1799353.

Gabr, M., & Fattouh, E. (2021). Assessment of irrigation management practices using FAO-CROPWAT 8, case studies: Tina Plain and East South El-Kantara, Sinai, Egypt. *Ain Shams Journal of Engineering*, 12(2), 1623–1636. <https://doi.org/10.1016/j.asej.2020.09.017>.

Gabr, ME. (2021) Modelling net irrigation water requirements using FAO-CROPWAT 8.0 and CLIMWAT 2.0: a case study of Tina Plain and East South ElKantara regions, North Sinai, Egypt, *Arch. Agron. Soil Sci.* 2021. DOI: 10.1080/03650340.2021.1892650.

Ahmed Awad, Wan Luo, Nadhir Al-Ansari, Ahmed Elbeltagi, Mustafa El-Raw, Hesham N. Farres, **Mohamed EL-Sayed Gabr.** Farmers' Awareness in the Context of Climate Change: An Underutilized Way for Ensuring Sustainable Farmland Adaptation and Surface Water Quality. *Sustainability* 2021, 13, 11802. <https://doi.org/10.3390/su132111802>.

Q2 Publications

Gabr, M.E.; Al-Ansari, N.; Salem, A.; Awad, A. Proposing a Wetland-Based Economic Approach for Wastewater Treatment in Arid Regions as an Alternative Irrigation Water Source. *Hydrology* 2023, 10, 20. <https://doi.org/10.3390/hydrology10010020>.

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.

Q3, Q4, and non-Scopus Publications

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.

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.

Gabr, M., El-Ghandour, H., Elabd, S. Rainwater Harvesting from Urban Coastal Cities Using Recharging Wells: A Case Study of Egypt. Port-Said Engineering Research Journal, 2022; 26(3): 17-36. doi: 10.21608/pserj.2022.103188.1151.

Gabr, M., Rageh, O. Strategic planning model for the construction and remediation of irrigation networks: A case study for Egypt. Delta University Scientific Journal, 2023; 6(1): 85-102. doi: 10.21608/dusj.2023.291016

Gabr, M.E. A Roadmap for Establishment of an Early Warning System for Nile Water Quality in Egypt. Port-Said Engineering Research Journal, 2020; 24(2): 40-51. doi: 10.21608/pserj.2020.18756.1014.

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.

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.

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.

Gabr, M. (2018) Wastewater reuse standards for agriculture irrigation in Egypt. Twenty-first International Water Technology Conference, IWTC21 Ismailia, pp. 234-246.

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.

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.

Gabr, M., ElSabhaw, 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.

Gabr, M., and Yacoub, S. (2003) Effect of Dam on River Regime", the 8th International conference for river sedimentations, November 2003, Cairo, Egypt.

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.

Conferences

IWTC 2018 : 21st International Water Technology Conference

IWTC 2023 : International Water Technology Conference

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, Modflow ...).

H index = 7 (Scopus)

The screenshot shows a Google Scholar profile for Mohamed Gabr. The profile includes a profile picture, a bio, and a list of his publications. The bio states: "Accoc. Prof. /Civil Engineering Department, Higher Institute for Engineering and Technology, New Egypt. Verified email at ndeti.edu.eg - Homepage. Water resources Irrigation and hydraulics". The publications list includes:

- Groundwater quality evaluation for drinking and irrigation uses in Dayrout city Upper Egypt. Cited by: 45, Year: 2021.
- Management of irrigation requirements using FAO-CROPWAT 8.0 model: A case study of Egypt. Cited by: 23, Year: 2022.


On the right side, there is a "Cited by" section with a table and a bar chart. The table shows:

	All	Since 2018
Citations	259	259
h-index	9	9
i10-index	7	7

The bar chart shows the number of citations per year from 2018 to 2023. The y-axis ranges from 0 to 120. The bars show a steady increase in citations over the period, with the highest number of citations in 2023.

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Mohamed Gabr [Edit](#)

Associated professor water resources · Professor (Associate) at Higher Institute for Engineering and Technology New Damietta Egypt | [Website](#)

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Citations 260

h-index 9


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Mohamed Gabr

Associated professor water resources · Professor (Associate)



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Department of Civil Engineering, New Damietta, Egypt 57218223528 <https://orcid.org/0000-0003-2448-601X>

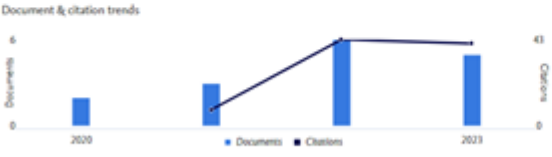
92
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Documents

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Document & citation trends



Year	Documents	Citations
2020	2	~10
2021	4	~25
2022	6	~40
2023	5	~38

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جمهورية فلسطين العربية
وزارة التعليم العالي
الوزراء

قرار وزاري

رقم ٤٩٦٦ بتاريخ ٧/٤٨/٢٠٢١ م

وزير التعليم العالي والبحث العلمي:

بعد الاطلاع على القانون رقم ٥٢ لسنة ١٩٧٠ بشأن تنظيم المعاهد العالية الخاصة.
وعلى القانون رقم ٤٩ لسنة ١٩٧٢ بشأن تنظيم الجامعات ولائحته التنفيذية.
وعلى قرار رئيس جمهورية مصر العربية رقم ٢٧٠ لسنة ١٩٩٧ بتنظيم وزارة التعليم العالي.
وعلى القرار الوزاري رقم ١٠٨٨ لسنة ١٩٨٧ بإصدار لائحة المعاهد التابعة والخاضعة لإشراف وزارة التعليم العالي.
وعلى قرار اللجنة العلمية الدائمة لهندسة الموارد المائية رقم (١١٥) لوظائف الأساتذة والأساتذة المساعدين بالمجلس الأعلى للجامعات بتاريخ ١١/٢٦/٢٠٢٠ م.
وعلى موافقة مجلس إدارة المعهد العالي للهندسة والتكنولوجيا بدمياط الجديدة بتاريخ ٢٠٢١/٤/١٤ م.
وعلى تقرير اللجنة العلمية الثلاثية للمعاهد الصناعية والهندسية بتاريخ ٢٠٢١/٧/٧ م.
وعلى ما عرضه السيد الأستاذ رئيس قطاع التعليم.

قرر

- مادة (١) تعيين السيد الدكتور/ محمد السيد أحمد جبر- المدرس بالمعهد العالي للهندسة والتكنولوجيا بدمياط الجديدة - في وظيفة استاذ مساعد بقسم الهندسة المدنية بالمعهد.
- مادة (٢) يلتزم المعهد بإخطار الوزارة بإقرار استلامه العمل أو الرقم التأميني خلال شهر من تاريخ إبلاغ المعهد بهذا القرار، وإلا يعتبر هذا القرار كأن لم يكن دون أدنى مسئولية على الوزارة طبقاً للقرار الوزاري رقم ٧٨٢ لسنة ٢٠١٤ الصادر في هذا الشأن.
- مادة (٣) على جميع الجهات المختصة تنفيذ هذا القرار.

وزير التعليم العالي والبحث العلمي

(أ.د/ خالد عبد الغفار)



محمد السيد أحمد جبر
١٢/٤/٢٠٢١





جامعة بورسعيد
كلية الهندسة
قسم الدراسات العليا



شهادة دكتوراه

تشهد كلية الهندسة جامعة بورسعيد بأن السيد المهندس/ محمد السيد أحمد جبر.

من مواليد : 1969/1/16 محافظة : بورسعيد الجنسية : مصرى

قد حصل على درجة دكتوراه الفلسفة فى الهندسة (الهندسة المدنية)

من جامعة قناة السويس فرع بورسعيد (سابقاً).

عنوان البحث باللغة العربية

" تولد وانتقال الرواسب بفعل حالات السريان الحرجة "

عنوان البحث باللغة الإنجليزية

"Generation and Transport of Sediments by Severe Flow Conditions"

تاريخ موافقة مجلس الكلية : 2003/9/22م.

تاريخ موافقة السيد الأستاذ الدكتور رئيس جامعة قناة السويس بالتفويض عن مجلس الجامعة بتاريخ: 2003/9/29م.

وقد تحررت هذه الشهادة بناء على طلبه لتقديمها إلى من يهمة الأمر وذلك بدون أدنى مسئولية على الكلية أو الجامعة فيما يتعلق بحقوق الغير.

سددت الرسوم المقررة بقسيمة رقم : 0249111



أمين الكلية

عميد الكلية

أ.د/ أيمن محمد إبراهيم

رئيس القسم

الدراسات العليا

٢١٢

وكيل الكلية للدراسات العليا والبحوث

أ.د/ مؤمن محمد جعفرى