

CURRICULUM VITAE



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

Tel: 002-066-457135

Mobile: 002-01094500344 and
00201224365961

E-mail : mohamed.gabr@ndeti.edu.eg

m_egabr@yahoo.com

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

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

Degree M. Sc. Degree
Research title “The Ideal Design for Lining and Protection of EL-Salam Canal”
Years (from-to) 1994-1997

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

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

Major Field of Research

- 1- Water supply and sanitary engineering
- 2- Environmental Engineering.
- 3- Wastewater treatment
- 8- Groundwater modelling
- 10- Building constructions
- 12- Geology and soil mechanics
- 14-Irrigation and hydrology.
- 16- Harbor Engineering and coastal Engineering.
- 17- Open channel Hydraulics
- 19- Computer application in civil engineering.
- 2- Water Resources management.
- 4- Water quality
- 6- Constructed wetlands.
- 9- Climate changes
- 11- Rain water harvesting.
- 13- Soil mechanics and foundation
- 15 – Fluid mechanics
- 18- Construction Engineering Drawings
- 20- Environmental pollution control

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

Research Interest and Expertise

- 1- Water supply and sanitary engineering
- 2- water quality Wastewater treatment.
- 3- Water Resources management.
- 4- Soil mechanics and foundations
- 5- Irrigation and Drainage Engineering.
- 6- Environmental Engineering.
- 7- Harbor Engineering and coastal Engineering.
- 8- Construction Engineering Drawings
- 9- Waste management.

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.

Research Projects

Sustainable Agriculture Using Solar Desalination: A Pathway to Food Security in the State of Kuwait

Code CN18-35EM-05

Total Budget 33,000KD

Starting Date 2021/02/01

End Date 31/01/2024

Research projects published papers

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

Gabr, M., Alhajeri, N. S., Al Jabri, S. (2023) Prospective and challenges of sustainable water resources for irrigation in Kuwait. The twenty-third International Water Technology Conference, IWTC23, that will be held in Port Said, Egypt 9-11 March 2023.

Gabr, M., Alhajeri, N. S., Al Jabri, S. (2023) Water, food, and energy: a nexus for advancing food security and sustainable agriculture. The twenty-third International Water Technology Conference, IWTC23, that will be held in Port Said, Egypt 9-11 March 2023.

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

1. **Gabr, M.E.**, Awad, A. & Farres, H.N. Irrigation Water Management in a Water-Scarce Environment in the Context of Climate Change. *Water Air Soil Pollut* 235, 127 (2024). <https://doi.org/10.1007/s11270-024-06934-8>.
2. Gabr, M.E., Soussa, H. Assessing surface water uses by water quality index: application of Qalyubia Governorate, Southeast Nile Delta, Egypt. *Appl Water Sci* 13, 181 (2023). <https://doi.org/10.1007/s13201-023-01994-3>.
3. **Gabr, M.E.**; El Shorbagy, A.M.; Faheem, H.B. Assessment of Stormwater Quality in the Context of Traffic Congestion: A Case Study in Egypt. *Sustainability* 2023, 15, 13927. <https://doi.org/10.3390/su151813927>.
4. 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>.
5. 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.
6. 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>

7. 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>.
8. Gabr, M., 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>.
9. 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.
10. Gabr, M., 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>.
11. 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.
12. 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.
13. 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>.
14. 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>.
15. 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>

16. 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>.
17. 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>.
18. Gabr, M.E., Fattouh, E., Eltarabily, M.G. (2023) Design of subsurface drainage network with minimum overall cost using Lagrange multiplier optimization. *Irrigation and Drainage*, 1–14. Available from: <https://doi.org/10.1002/ird.2886>
19. 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>.
20. 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.
21. Gabr, M.E.; Fattouh, E.M.; Mostafa, M.K. Determination of the Canal Discharge Capacity Ratio and Roughness to Assess Its Maintenance Status: Application in Egypt. *Water* **2023**, 15, 2387. <https://doi.org/10.3390/w15132387>
22. 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>.
23. 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.
24. 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

25. 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>.
26. 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

27. Faheem, H.B, El Shorbagy, A.M.; **Gabr, M.E.** Impact of Traffic Congestion on Transportation Systems: Challenges and Remediation- A Review. Mansoura Engineering Journal **2024**, 49, 1-29. <https://doi.org/10.58491/2735-4202.3191>.
28. 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.
29. 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.
30. 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.
31. 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

32. 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.
33. 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.
34. 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.
35. 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.
36. Gabr, M. (2018) Wastewater reuse standards for agriculture irrigation in Egypt. Twenty-first International Water Technology Conference, IWTC21 Ismailia, pp. 234-246.
37. 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.
38. 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.
39. 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.
40. Gabr, M., and Yacoub, S. (2003) Effect of Dam on River Regime", the 8th International conference for river sedimentations, November 2003, Cairo, Egypt.
41. 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.

LANGUAGE PROFICIENCY

Arabic

Mother tongue

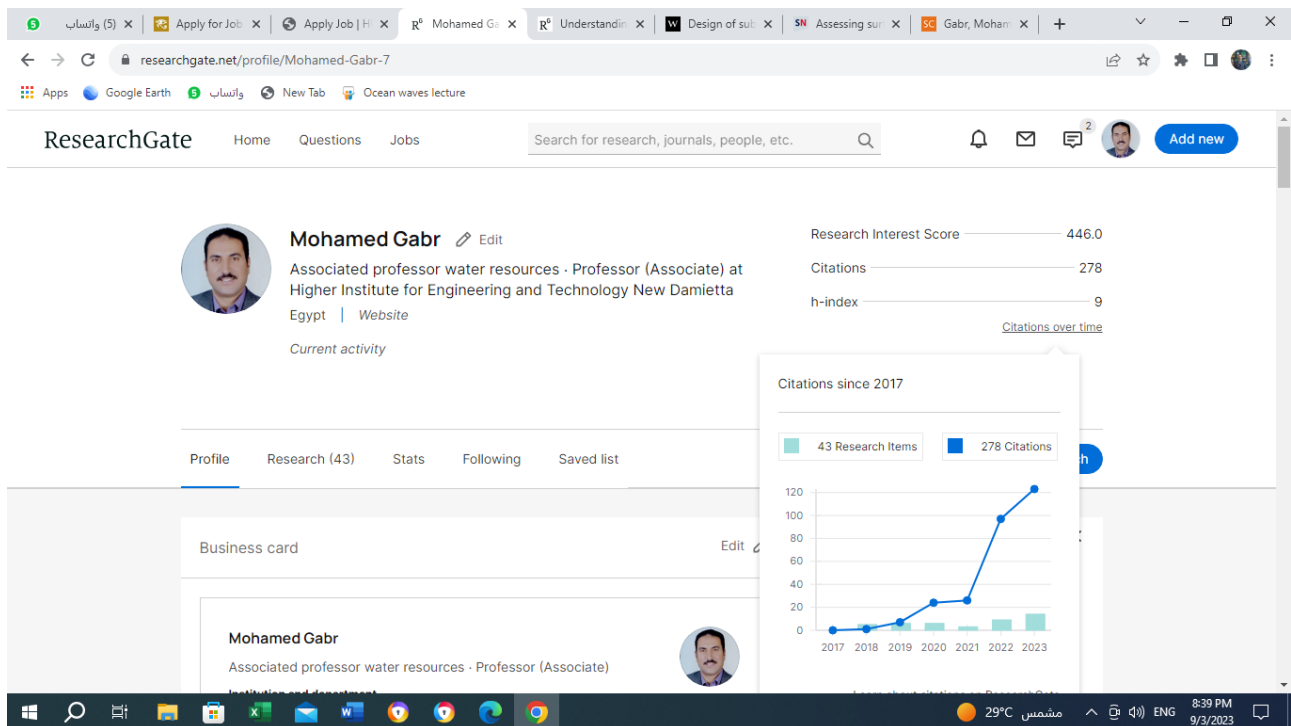
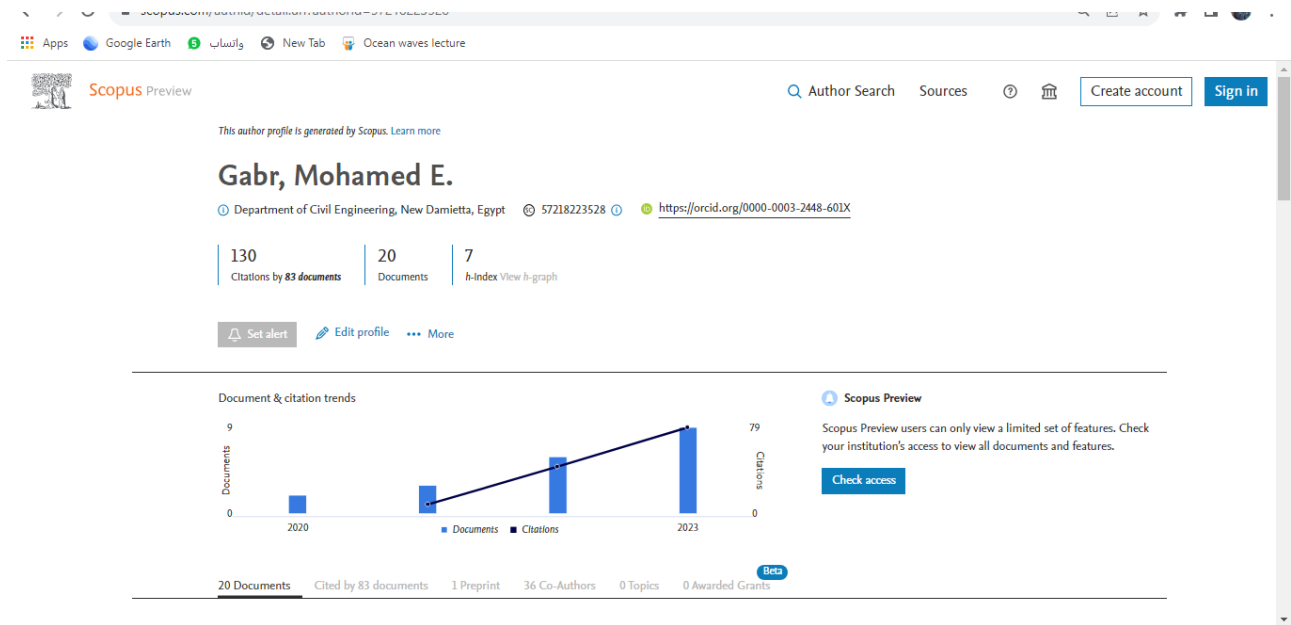
English

Very Good

COMPUTER SKILLS

large experience in internet research

High performance in using software (Auto Cad, SAP, WaterCAD, SewerCAD, MS Project, EPNET, Modflow ...).





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 : مصري

قد حصل على درجة دكتوراه الفلسفة في 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 لتقدمها إلى من يهمه الأمر وذلك بدون أدنى مسؤولية 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
أ.د/

وكيل الكلية للدراسات العليا والبحوث
أ.د/ مؤمن محمد جعفرى



جمهورية فلسطين العربية
وزارة التعليم العالي
التعليم

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 مسؤولية 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)



استاذ

٢٠

جسد
١٢
١٢
١٢
١٢



رئاسة مجلس الوزراء

الهيئة القومية لضمان جودة التعليم والاعتماد



نشاهد
إذاعة

تشهد الهيئة القومية لضمان جودة التعليم و الاعتماد أن :

د / محمد السيد احمد جبر

قد حضر

" المر اجعة الخارجية لكليات ومعاهد التعليم العالي "

في الفترة من ٢٤ يوليو ٢٠٢٣ إلى ٢٦ يوليو ٢٠٢٣

رئيس مجلس إدارة الهيئة

د. رواد عشاوي

أ. د. محمد السيد محمد الوكيل



أ. د. عطية السيد عبد المالح
مدير إدارة التدريب
الهيئة القومية لضمان جودة التعليم والاعتماد

أ. د. محمد السيد محمد الوكيل



CERTIFICATE OF A CONSULTANT ENGINEER

Whereas the Decree of the Minister of Irrigation No. 1684/1972 providing for the establishment of the Consultant Engineers Registration Book and the establish of the Supreme Consulting Engineering Committee on 05/12/2023 and Council Supreme on 09/12/2023 of the works carried out by the Engineer, holder of the present Certificate, according to articles 2 & 3 of the above mentioned Ministerial Decision and its other items, the present Certificate has been delivered to :-

Engineer / **Mohamed Elsayed Ahmed Gabr** .

Member of the syndicate No:- 2015/17 Consultant Engineer:- 7428/01 Engineering Branch : Civil in his Capacity as Consultant Engineer in the Field of :-

{ Design Of Concrete Structures }

GENERAL SECRETARY

M. H. Arafat

Eng. / MAHMOUD HAMID ARAFAT

Cairo in : 08/01/2024

