# CURRICULUM VITE

Assoc. Prof. Elsayed Mukhtar Ramadan Gomah



#### <u>OBJECTIVES</u>

The prime academic objectives in the field of water studies are to participate in teaching water engineering sciences, and participate in the research studies about; water resources management, surface and groundwater hydrology, environmental studies, pollution issues, climate change, GIS, remote sensing, surface and groundwater modeling and assessment, ...etc.

#### PERSONAL DETAILS:

Full Name	:	
Date of Birth	:	December 30, 1979
Place of Birth	:	Husseiniya Center, Sharkia Governorate, Egypt
Nationality	:	Egyptian
Gender	:	Male
Marital Status	:	Married
No. of Children	:	4 (Omar, 15 years – Jana, 12 years – Aser, 9 years – Jory, 6years)
Religion	:	Moslem
Military Service	:	Completed

#### ADDRESSES:

Mailing Address	:	the old wholesale market, the Ring Road, El-Salam territory, Ismailia,
		Egypt.
Telephone (Home)	:	002-064-3119060
Mobile No.(s)	:	(002) 010.1217.0096, and 01552753327
E-Mail (Home)	:	S_mukh2006@yahoo.com - S_mukh2006@hotmail.com -
		Dr.sayed.mukhtar@gmail.com
Work Address	:	Water and water Structures Engineering Department, Faculty of
		Engineering, Zagazig University, Zagazig, Egypt, Postal Code 44519
Telephone (Work)	:	055-2304987
Fax (Work)	:	055-2304987
E-Mail (Work)	:	<u>Smokhtar@zu.edu.eg, elsayed.mokhtar@su.edu.eg</u>
Other Contacts	:	Tr-Elsaved-Mukhtar 🖪 Dr-Elsaved Mukhtar

## EDUCATION:

- Ph.D. in Civil Engineering Sciences, Water Resources Management, 2013, Water and Water Structures Engineering Dept., Civil Engineering Division, Faculty of Engineering, Zagazig University, Zagazig, Egypt.
- M.Sc. in Civil Engineering Sciences, Water Resources Management, 2007, <u>The Best M.Sc. in</u> <u>Zagazig University at 2007 in the Engineering Branch</u>, Water and Water Structures

Engineering Dept., Civil Engineering Division, Faculty of Engineering, Zagazig University, Zagazig, Egypt.

- B.Sc. in Civil Engineering, 2001, <u>Very Good</u> grade, Graduation Project was in Structural Design Based on Computer Technology, <u>Excellent</u> grade, Civil Engineering Division, Faculty of Engineering, Zagazig University, Zagazig, Egypt.

#### WORK EXPERIENCE:

#### <u>September/2019 – Present:</u>

- Associate professor of water resources, Water and Water Structures Engineering Department, Faculty of Engineering, Zagazig University, Egypt.
- Associate professor of Water Engineering Subjects (Part time), Faculty of Engineering Sciences, Sinai University, and Institute for Engineering and Technology, El-Arish, North Sinai Governorate, Egypt.
- General Manager of Elmukhtar Engineering consultancy office "Consera E.C.O." in multiple civil engineering fields.
- Associate in different projects in the field of engineering applications with the National Authority of Remote Sensing and Space Sciences "NARSS", Ministry of Higher Education, and Scientific Research, Egypt:
  - 1. Research project from "Hydrogeological and hydrological studies to evaluate the expected climate change scenarios and their impact on water sources in the region extending from Ras Elhekmah up to Elsaloom using remote sensing, geographic information systems and numerical modeling" the project funded from NARSS during 2023-2024.
  - 2. Study of the foundation design work for the ethane transportation line Petrochemical Logistics Services Company Max Zone Alexandria, and the study is for the Petrochemical Logistics Services Company. The study was conducted with NARSS during the year 2022.
  - 3. Study of "Updating the infrastructure of the main and secondary streets and determining the most appropriate path for the rain drainage network of the Amriya Petroleum Refining Company and its environmental impacts on Lake Mariout. The study was for the benefit of the Amriya Petroleum Refining Company - Ministry of Petroleum and Mineral Resources. The study was conducted during the period from the beginning of August until the end of December. Year 2021.

## September/2017 – September/2019:

- Lecturer of water engineering subjects (Full time), Faculty of Engineering Sciences, Sinai University, North Sinai Governorate, Egypt. Seconded from the Faculty of Engineering, Zagazig University.
- Associate in different projects in the field of water resources management, groundwater engineering, flood managements, and flood hazarded protection.

## <u>July/2013 – September/2017:</u>

- Lecturer in Water and Water Structures Engineering Dept., Civil Engineering Division, Faculty of Engineering, Zagazig University, Zagazig, Egypt.

- Lecturer of Water Engineering Subjects (Part time), Faculty of Engineering Sciences, Sinai University, North Sinai Governorate, Egypt.
- Lecturer of Water Engineering Subjects (Part time), Institute for Engineering and Technology, El-Arish, North Sinai Governorate, Egypt.
- Associate in different projects in the field of water resources management, groundwater engineering, flood managements, and flood hazarded protection:
  - 1. Research study for flash flooding, rainfall water harvesting, and land management for the new administrative capital with NARSS, 2015 up to 2017. A Research Project Funded by Egyptian planning ministry, still working.
  - 2. Geospatial Information System for Land Management for the Egyptian Eastern desert "Wadi Qena and Mattoli", 2016 up to now. A Research Project Funded by NARSS, still working.
  - 3. Geospatial Information System for Land Management for the Egyptian South-Eastern corner "Halayeb and Shalateen", 2014 up to 2016. A Research Project Funded by NARSS.
  - 4. Study water treatment units for artesian wells in the North-Eastern Nile Delta region (Awlad Saqr- Kafr Saqr - San El-Hagar - Husania) in favors of drinking water and sanitation company, Sharkia, Egypt, 2014, 70 pp in Arabic.
  - 5. Rainwater Harvesting Planning in Some Selected Parts of Northwestern Desert Coast, Using RS, GIS and Watershed Modeling Techniques, 2014. A Research Project Funded by NARSS, 300 pp.
  - 6. Research Project (1381/Basic & Applied Research Program): Determination of Potential Sites and Methods for Water Harvesting in Sinai Peninsula by Application of RS, GIS and WMS Techniques, from 19/06/2012 to 19/07/2013, Science and Technology Development Fund (STDF).
  - 7. Study protection work to the axis of the development project for the western arc Ring Road from intersection with Regional Road Cairo/Alexandria to intersection with the Cairo/Oases Road from sand dune hazards, The study conducted in collaboration with the National Authority for Remote Sensing and Space Science in favors of Engineering Authority of the armed forces - Arab Republic of Egypt, March 2014.

*November/2007 – July/2013:* 

- Ass. Lecturer in Water and Water Structures Engineering Dept., Civil Engineering Division, Faculty of Engineering, Zagazig University, Zagazig, Egypt.
- Associate in different projects in the field of water resources management, groundwater engineering, flood managements, and flood hazarded protection:
  - Geospatial Information System for Land Management in Sinai Peninsula: WP2 (F4/Pr 01) Water Resources Potentiality, 2010-2013. A Research Project Funded by NARSS, 250 pp.
  - 2. Effect of new upper Nile projects on the integrated management of the basin, A collaborative research project at Water and Water Structures Engineering Dept., Civil Engineering Division, Faculty of Engineering, Zagazig University, Zagazig, Egypt,

2011-2012.

- 3. Detailed Consultative Study for the Assessment of Flash Floods Hazards and their Optimum Mitigation Measures for the area of Porto South Beach (on the road to Suez Zafarana Hurghada Kilo 105). A Consultative Study Sponsored and funded by AMER Group, 30 pp, 2011.
- 4. Detailed Consultative Study for the Assessment of Flash Floods Hazards and their Optimum Mitigation Measures for the area of Porto Sukhna (on the road to Suez Zafarana Hurghada Kilo 80). A Consultative Study Sponsored and funded by AMER Group, 35 pp, 2010.
- 5. Surface Water/Groundwater Potentialities of Sinai Peninsula: Determining Parameters of Sustainability Using Remote Sensing & GIS Techniques. Final Report (funded by NARSS), 2009.
- 6. Climate Induced Changes on the Hydrology of Mediterranean Basins. Reducing Uncertainty and Quantifying Risk, A collaborative research project under the 7<sup>th</sup> Framework Program Environment, incl. Climate Change (ENV).

November/2001 – November/2007:

- Demonstrator in Water and Water Structure Engineering Dept., Civil Engineering Division, Faculty of Engineering, Zagazig University, Zagazig, Egypt.

<u> November/2001 – May/2002:</u>

- Part-time designer and construction supervisor of reinforced concrete structures such as water structures, residential buildings, etc. Consulting Office of Prof. Dr. Hessan Bondok, Zagazig, Egypt.

June/2001 – November/2002:

- Full-time designer and construction supervisor of reinforced concrete structures such as water structures, residential buildings, etc. Consulting Office of Prof. Dr. Hessan Bondok, Zagazig, Egypt.

#### COMPUTER SKILLS:

- Excellent in **ArcGIS** software and its different applications.
- Expert in **ERDAS** Imagine software for satellite images analysis using remote sensing techniques.
- Expert in Watershed Modeling System (WMS) software.
- Expert in Surface Water Modeling System (SMS) software.
- Expert in River Basin Modeling System (RIBASIM, and MODSIM) Software's.
- Expert in Water Distribution, Planning and Management (WEAP) Software's.
- Expert in Surfer & Global Mapper Software's for mapping and contouring.
- Professional with Visual Modflow, PM1, and Aquiveo software for Groundwater modeling.
- Professional with Leica Geo Office software for GPS data processing.
- Professional with different Windows operating systems (2000, NT, XP, Vista, Server2003, Windows 7, 8 and Windows 10).
- Professional with AutoCAD Release up to 2024, 2 Dim. Only.
- Professional with **Sap 2000** Version 24.

- Expert in Microsoft Office Professional up to 2024.
- Excellent skills in using Internet.
- In addition to some other Different Engineering Software's.

# <u>TEACHING EXPERIENCE:</u>

- Teaching and supervising the following under-graduate courses both theoretically and experimentally:
- 1. Civil Engineering Drawing, (1st year civil students),
- 2. Irrigation and Drainage Engineering, (2nd year civil students),
- 3. Fluid Mechanics and its Applications, (2nd year civil students),
- 4. Surface and Groundwater Hydrology, (2nd year civil students),
- 5. Hydraulics of Open Channels and Pipe Flow, (3rd year civil students),
- 6. Design of Water Structures, (3rd year civil students "crossing works"),
- 7. Preparing of Engineering Technical Reports, (3rd year civil students),
- 8. Design of Water Structures, (4th year civil students "heading up works"),
- 9. Harbor Engineering and Inland Navigation, (4th year civil students),
- 10. Water Projects and its Economy, (4th year civil students), and
- 11. Both of "Water Resources Management" and "Groundwater" Graduation Project, (4th year civil students).
- Teaching and supervising the following post-graduate courses:
  - 1. Advanced Water Resources Management.
  - 2. Economics of Groundwater Projects.
  - 3. Evaluation of Irrigation projects.
  - 4. Advanced Irrigation System.
  - 5. Advanced Hydrology.
  - 6. Selective Topics.

# <u>LANGVAGES:</u>

- English: Very good command.
- Arabic: Native Language.

# <u>PUPLISHED PAPERS:</u>

- 1- **Elsayed M. Ramadan**, Abdelazeim M. Negm, and Talaat M. Owais, 2011, "Effect of new upper Nile projects on the integrated management of the basin: review and methodology", G105-HW49-WR05, Fifteenth International Water Technology Conference, IWTC 15- 2011, Alexandria, Egypt.
- 2- Elsayed M. Ramadan, Abdelazeim M. Negm, Mustafa El-Smanny, and A. Helmy, 2013, "Environmental impacts of great Ethiopian Renaissance Dam on the Egyptian water resources management and security", The 23<sup>rd</sup>. International Conference on: Environmental Protection is a Must 11 – 13 May 2013, Alexandria, Egypt.
- 3- Elsayed M. Ramadan, Abdelazeim M. Negm, Mustafa El-Smanny, and A. Helmy, "Effect of

Aswan High Dam (AHD) storage on the integrated management of water resources in Egypt", The Egyptian International Journal of Engineering Sciences and Technology, Vol. 16, No. 3, Sep. 2013.

- 4- Elewa H.H, Elsayed M. Ramadan, El-Feel A.A, Abu El Ella E.A., Nosair A.M., 2013, "Runoff Water Harvesting Optimization by Using RS, GIS and Watershed Modelling in Wadi El-Arish, Sinai", International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 2 Issue 12.
- 5- Elewa H.H, **Elsayed M. Ramadan**, and Nosair A.M., 2013, "Water/Land Use Planning of Wadi El-Arish Watershed, Central Sinai, Egypt Using RS, GIS and WMS Techniques", International Journal of Scientific and Engineering Research (IJSER), ISSN: ISSN 2229-5518, Vol. 5 Issue 9.
- 6- H. F. Abd-Elhamid, I. Abd-Elaty, and **Elsayed M. Ramadan**, 2016, "The impact of climate change and population growth on groundwater resources in the eastern Nile delta aquifer, Egypt", The International Conference of Engineering Sciences and Applications, Aswan, Egypt, January 29 31, 2016.
- 7- Sherien Abdel-Aziz, Abdelazeim Negm, Gamal M. Abdel-Aal, Elsayed M. Ramadan, and Mohammed Nassar, 2016, "Developing statistical relationships between the water quality and hydraulic parameters of covered irrigation canals: a case study: Abu Kebier city, Sharkia governorate, Egypt", The International Conference of Engineering Sciences and Applications, Aswan, Egypt, January 29 – 31, 2016.
- 8- Sherien Abdel-Aziz, Abdelazeim Negm, Gamal M. Abdel-Aal, **Elsayed M. Ramadan**, and Mohammed Nassar, 2016, "Evaluating the impact of irrigation canal covering on water quality parameters: "a case study: Abu Kebier city, Sharkia governorate, Egypt", The International Conference of Engineering Sciences and Applications, Aswan, Egypt, January 29 – 31, 2016.
- 9- Badr M. Mabrouk, Hossam H. Elewa, **Elsayed M. Ramadan**, and Ahmed M. Nosair, 2016, "Morphometric analysis and evaluation of the flooding potentialities of Wadi Fierran area, southern Sinai, Egypt". Bull. Fac. Sci-Zagazig University, v. 37, 29p, 2015.
- 10- Hossam H. Elewa, **El-Sayed M. Ramadan**, and Ahmed M. Nosair, 2016, "Spatial-based hydromorphometric watershed modeling for the assessment of flooding potentialities", Environ Earth Sci, (2016) 75:927, DOI 10.1007/s12665-016-5692-4, Springer-Verlag Berlin Heidelberg 2016.
- 11- Atef A. Elsiad, El-Sayed M. Ramadan and Amal Magdy, 2017, "Quantitative evaluation of drainage basin characteristics using GIS based morphometric analysis: A case study of Wadi Sudr, Sinai, Egypt", Twentieth International Water Technology Conference, IWTC20, Hurghada, 18-20 May 2017.
- 12- G. Mostafa, M. Fahmy, S. Ramadan and O. Shalash, "Evaluation of Water Shortage in East Nile Delta", International Journal of Civil Engineering and Technology, 10(5), 2019, pp. 170– 180. © IAEME Publication.
- 13- G. Mostafa, M. Fahmy, **S. Ramadan** and O. Shalash, "Use Virtual Water Strategy to Reduce Water Deficit in Sharkia Governorate", Journal of Mechanical and Civil Engineering (JOSR-JMCE), 2019.

- 14- Elsayed M. Ramadan, Maha R. Fahmy, Ahmed M.M Nosair, Abir M. Badr, "Using Geographic Information System (GIS) modeling in evaluation of canals water quality in sharkia governorate, East Nile Delta, Egypt", Modeling Earth Systems and Environment, June 2019, pp. 1-15. © Springer Nature Switzerland AG. 2019, Part of Springer Nature.
- 15- Elsayed M. Ramadan, Omima S. Shalash, Maha R. Fahmy, and Gamal M. Abdel-Aal, "integrated water resource management in sharkia governorate, East Nile Delta using numerical evaluation of water management strategies", Alexandria Engineering Journal, Article accepted for publication: 22 Jun 2019, Production and Hosting by Elsevier B.V. on behalf of Faculty of Engineering, Alexandria University.
- 16- Elewa, Hossam H., Ahmad M. Nosair, and **Elsayed M. Ramadan.** "Determination of Potential Sites and Methods for Water Harvesting in Sinai Peninsula by the Application of RS, GIS, and WMS Techniques." In Flash Floods in Egypt, pp. 313-345. Springer, Cham, 2020.
- 17- Elewa, Hossam H., Ahmad M. Nosair, and Elsayed M. Ramadan. "Sustainable Development of Mega Drainage Basins of the Eastern Desert of Egypt; Halaib–Shalatin as a Case Study Area." In Flash Floods in Egypt, pp. 141-204. Springer, Cham, 2020.
- 18- Abdelwahab, Heba F., **Elsayed M. Ramadan**, and Abdelazim M. Negm. "Modeling in Water Resources Management in East Nile Delta." Acta Marisiensis. Seria Technologica 17, no. 2 (2020): 41-46.
- 19- Ramadan, E.M.; Abdelwahab, H.F.; Vranayova, Z.; Zelenakova, M.; Negm, A.M. Optimization-Based Proposed Solution for Water Shortage Problems: A Case Study in the Ismailia Canal, East Nile Delta, Egypt. Water 2021, 13, 2481. <u>https://doi.org/10.3390/w13182481</u>.
- 20- Khairy, S., M. Shaban, A. M. Negm, O. W. Eldeen, and **Elsayed M. Ramadan**. "Drainage water reuse strategies: Case of El-Bats drain, Fayoum Governorate, Egypt." Ain Shams Engineering Journal 13, no. 5 (2022): 101681.
- 21- **Ramadan, Elsayed M.**, Hossny A. Shahin, Hany F. Abd-Elhamid, Martina Zelenakova, and Hazem M. Eldeeb. 'Evaluation and Mitigation of Flash Flood Risks in Arid Regions: A Case Study of Wadi Sudr in Egypt." Water 14, no. 19 (2022): 2945.
- 22- **Ramadan, E.M.**; Badr, A.M.; Abdelradi, F.; Negm, A.; Nosair, A.M. Detection of Groundwater Quality Changes in Minia Governorate, West Nile River. Sustainability 2023, 15, 4076. <u>https://doi.org/10.3390/su</u> 15054076
- 23- Abd-Elaty, Ismail, Ismail Fathy, Alban Kuriqi, Am Pris John, Salvatore Straface, and Elsayed M. Ramadan. "Impact of Modern Irrigation Methods on Groundwater Storage and Land Subsidence in High-water Stress Regions." Water Resources Management 37, no. 4 (2023): 1827-1840.
- 24- Elewa, Hossam H., Ahmed M. Nosair, Martina Zelenakova, Viktoria Mikita, Nermeen A. Abdel Moneam, and **Elsayed M. Ramadan.** 'Environmental Sustainability of Water Resources in Coastal Aquifers, Case Study: El-Qaa Plain, South Sinai, Egypt." Water 15, no. 6 (2023): 1118.
- 25- Badr, A.M.; Abdelradi, F.; Negm, A.; **Ramadan, E.M.** "Mitigating Water Shortage via Hydrological Modeling in Old and New Cultivated Lands West of the Nile in Egypt". Water 2023, 15, 2668. https://doi.org/10.3390/w15142668

26- Ismail Abd-Elaty, Alban Kuriqi, **Elsayed M. Ramadan**, Ashraf A. Ahmed. "Hazards of sea level rise and dams built on the river Nile on water budget and salinity of the Nile Delta aquifer" Journal of Hydrology: Regional Studies 51 (2024) 101600.

### HONORS and FELLOWSHIP:

- Certificate of Appreciation from the Faculty of Engineering, Zagazig University, for the outstanding efforts done since graduation in 2001.
- Certificate of Appreciation from Zagazig University, for The Best M.Sc. in Zagazig University in 2007 in the Engineering Branch, 2007.
- Certificate of Appreciation from the Egyptian Syndicate for Engineers.