

Curriculum Vitae (C.V.)

Ahmed AbdelAziz Mohamed Megally

Assistant Professor (Structural Engineering – Geotechnical Engineering and Foundations)
Department of Civil Eng. - Faculty of Engineering - Assiut University - Egypt

First: Personal Data:

Name:	Ahmed AbdelAziz Mohamed Megally	
Date of birth:	October 1, 1992	
Place of birth:	Assiut – Egypt	
Nationality:	Egyptian	
Social status:	Married and have two children	
Current Position:	Assistant Professor at Civil Eng. Dept. - Faculty of Engineering - Assiut University – Egypt	
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Second: Educational Qualifications

• First degree (2009 – 2014)

- **Degree:** Bachelor of Engineering
- **Field of Specialization:** Civil Engineering
- **Donor:** Faculty of Eng., Assiut University, Egypt
- **Date of Graduation:** June 2014
- **GPA:** Excellent with Honors
- **Graduation Project:** Design of Constructions and Project Management
- **Project GPA:** Excellent (150/150)

• Second degree: (9/2014 – 10/2018)

- **Degree:** M.Sc. of Civil Engineering
- **Field of Specialization:** Geotechnical Engineering and Foundations
- **Donor:** Faculty of Eng. - Assiut University - Egypt
- **Date of Granting:** October 2018
- **Thesis Title:**
“Behavior of Footing Rested on Soft Clay Soil Reinforced with Geosynthetic Encased Stone Columns”

- **Third degree: (1/2019 – 3/2022)**

- **Degree:** Ph.D. of Civil Engineering
- **Field of Specialization:** Geotechnical Engineering and Foundations
- **Donor:** Faculty of Eng. - Assiut University - Egypt
- **Date of Granting:** March 2022
- **Thesis Title:**
“Behavior of Foundations on Soft Clay Soil Improved with Geosynthetic Reinforced Sand Bed and Encased Stone Columns”

Third: Academic positions

- 11/2014 - 10/2018: **Demonstrator**, Civil Eng. Dept., Assiut University, Egypt.
- 11/2018 - 02/2022: **Assistant lecturer**, Civil Eng. Dept., Assiut University, Egypt.
- 03/2022 - Now: **Assistant Professor**, Civil Eng. Dept., Assiut University, Egypt.

Fourth: Scientific activity:

A- Teaching work: Courses taught to students during the period from 2014 until now:

- 1- **Soil Mechanics and Foundations (1)** for second year civil department students, Faculty of Engineering, Assiut University, Egypt.
- 2- **Soil Mechanics and Foundations (2)** for third year civil department students, Faculty of Engineering, Assiut University, Egypt.
- 3- **Foundations** course for third year students, Department of Architecture, Faculty of Engineering, Assiut University, Egypt.
- 4- **Soil and Foundations Reports** course for second year students, Faculty of Fine Arts, Assiut University, Egypt.
- 5- **Reinforced concrete** course for first year students, Mechanical Engineering Department, Assiut University, Egypt.
- 6- **Reinforced concrete** course for second year students, Faculty of Fine Arts, Assiut University, Egypt.
- 7- **Advanced soil mechanics** course for fourth year students, Department of Civil Engineering, Faculty of Engineering, Assiut University, Egypt.
- 8- **Materials** course for First year students, Department of Architecture, Faculty of Engineering, Assiut University, Egypt.
- 9- Participation in the supervision and follow-up of the "**Foundations**" **project** for undergraduate students in the Department of Civil Engineering, Faculty of Engineering, Assiut University, Egypt.

- 10- Participation in the supervision and follow-up of the **project "Establishing on Problematic Soils"** for undergraduate students in the Civil Engineering Department, Faculty of Engineering, Assiut University, Egypt.
- 11- **Concrete bridges** course for fourth year students, Department of Civil Engineering, Faculty of Engineering, Assiut University, Egypt.
- 12- **Civil drawing** course for first year civil students, Faculty of Engineering, Assiut University, Egypt.
- 13- **Soil Mechanics** Course for second level students in the Construction Engineering and Project Management Program, Faculty of Engineering, Assiut University, Egypt.
- 14- **Foundations** Course for third level students in the Construction Engineering and Project Management Program, Faculty of Engineering, Assiut University, Egypt.
- 15- Participation in the explanation of the **Applied Soil Mechanics** course for diploma and master's students in structural engineering at the Civil Engineering Department, Assiut University, Egypt.
- 16- Participation in the explanation of the course of **Improving soil properties** for diploma and master's students in structural engineering at the Department of Civil Engineering, Assiut University, Egypt.

B- Publications:

1. Ahmed Abdelaziz Megally, Ebraheem Ramadan, Mostafa Abdel-Naiem, and Abdelaziz Senoon, "Bearing Capacity of Soft Clay Soil Improved by Sand Bed over Geosynthetic Encased Stone Columns, Case of Study," Civil Engineering and Architecture, Vol. 10 (2022) & <https://www.researchgate.net/publication/359218676>
2. Ahmed Abdelaziz Megally, E. H. Ramadan, M. A. Abdel-Naiem, and Abdelaziz Senoon, "Improvement of Foundations Performance on Soft Clay Using Geosynthetic Reinforced Sand Bed and Encased Stone Columns," Soil Mechanics and Foundation Engineering 2022 (3) & <https://www.researchgate.net/publication/359218434>
3. Megally A. A. M., Ramadan E. H., Abdou M., Senoon A. A., "Effect of Adding Unreinforced Sand Bed over Encased Stone Columns on the Bearing Capacity of Soft Clay Soil," Proceedings, 2nd International Conference on Civil Engineering, Hurghada, Egypt, Nov., 2021. https://conferences.ekb.eg/article_1210.html & <https://www.researchgate.net/publication/357256354>.
4. Megally A. A. M., Ramadan E. H., Senoon A. A. & Abdou M., " Stone Columns and Geosynthetic Reinforced Sand Bed for Performance Improvement of Foundations on Soft Clay ", International Conference on Advances in Structural and Geotechnical Engineering "ICASGE'21" , <https://icasge.conferences.ekb.eg/>, March, 2021.

5. Ahmed Abdelaziz Megally “Performance of footings on Reinforced Soft Clay Soil by Ordinary and Geosynthetic Encased Stone Columns,” 4 th International Conference on Ground Improvement and Ground Control, 1-3 December **2019**, DOI: 10.13140/RG.2.2.10142.61768
6. Megally A. A. M., Ramadan E. H., Senoon A. A. & Abdou M., "A State-of-the-Art Review of Ordinary and Encased Stone Columns Treatment of Soft Clay Soil", International Conference on Advances in Structural and Geotechnical Engineering "ICASGE'19" , www.icasge.com, March, 2019.
7. Megally A. A. M., Ramadan E. H., Senoon A. A. & Abdou M., "Effect of Geosynthetic Encased Stone Columns on Behavior of Footing Rested on Soft Clay Soil", International Conference on Geotechnical Engineering and Architecture hosted by ISSMGE TC 207 in **Saint Petersburg, Russia**, <http://tc207ssi.org/conferences/2018/index.html>, September, **2018**.
8. Megally A. A. M., Ramadan E. H., Abdou M., Senoon A. A. , "Improving the Behavior of Soft Clay Soil Using Ordinary and Encased Stone Columns", The 7th Annual International of ASU Conference , <http://asuconference.asu.edu.eg/>, April, **2018**
9. Megally A. A. M., Ramadan E. H., Abdou M., Senoon A. A. , "Performance of Soft Clay Foundations Improved by Sand Bed over Geosynthetic Encased Stone Columns", Journal of Engineering Sciences , under review.
10. Ahmed Abdelaziz Megally, " Behavior of Foundations on Soft Clay Soil Improved with Geosynthetic Reinforced Sand Bed and Encased Stone Columns", The IV African Conference on Geosynthetics "GeoAfrica 2023" , Accepted.

C- Organizing conferences and participating in the evaluation and development of the educational process.

C-1 Organizing conferences and seminars:

- 1- Organizing the Second International Conference on Civil Engineering (Recent Applications and Future Challenges), October 2021.
- 2- Organizing the general symposium and the discussion panel, “The Ethiopian Renaissance Dam, technically, legally, historically and strategically”, in which Prof. Mohamed Nasr Allam, former Minister of Irrigation, participated and lectured in March 2014.
- 3- Organizing a scientific rarity and discussion seminars entitled (The Engineer of the Twenty-first Century) - 2014.
- 4- Organizing AHELLO Conference, 2013.

C-2 Participation in the evaluation and development of the educational process

- 1- Participation in the accreditation of Soil Mechanics and Foundations Laboratory (LP8 - 012 - ASSU) Faculty of Engineering, Assiut University (ISO 17025).
- 2- Participation in quality work - Material and Financial Resources Committee - Faculty of Engineering, Assiut University.
- 3- Participation in the preparation and development of the scientific content of the decisions related to soil mechanics and foundations courses in the Department of Civil Engineering in the new regulation 2021-2022.
- 4- Participation in the development of laboratories at Assiut University by purchasing and operating new devices such as: triaxial compression, consolidation, soil compaction, and pile integrity device.

D- Language

- Arabic native speaking, Excellent in English, acceptable level in French

Fifth: Membership of scientific and professional societies:

- 1- **Member** of the International Society of Soil Mechanics and Geotechnical Engineering in England "ISSMGE".
- 2- **Member of the Board** of Directors at the Egyptian Geotechnical Society "EGS".
- 3- **Member of the** International Geosynthetic Society "IGS".
- 4- **Member** of the Egyptian Syndicate of Engineers since 2014 until now.
- 5- **Member of the Board** of Engineering Studies and Consulting Center, at Faculty of Engineering, Assiut University, Egypt.
- 6- **Member of the Board** of UCCD "University Center for Career Development", at Assiut University, Egypt.
- 7- **Deputy Technical Manager** of the Soil Mechanics and Foundations Laboratory, Faculty of Engineering, Assiut University since 2018 until now.
- 8- **General Secretary** of the Civil Engineering Department Council 2022_2023.
- 9- **Founder/Team Leader** of ASCE "Assuit Super Construction Engineer".
- 10- **Technical Engineer** at Soil Mechanics and Foundations Laboratory, Faculty of Engineering, Assiut University since 2014 until now.
- 11- **Documents Officer** in Soil Mechanics and Foundations Laboratory, Faculty of Engineering, Assiut University.
- 12- **Member** of the committee for setting the schedules of the staff at the Faculty of Engineering, Assiut University.

Sixth: Awards and Honors:

- 1- Certificate of Honor from the **Egyptian Syndicate of Engineers** for the best master's thesis for the years 2017-2018.
- 2- Certificate of honor from the **Prime Minister** for the early graduates of the Republic in the 2014 graduation projects.
- 3- Certificate of honor from the **President of Assiut University** for the top faculties' students.
- 4- Certificate of honor from the civil **class 55**, Faculty of Engineering, Assiut University.
- 5- Certificate of Honor from **Student Union 2012/2013** Faculty of Engineering, Assiut University.
- 6- Certificate of Honor from the **Student Union 2011/2012** Scientific Committee - Faculty of Engineering, Assiut University.
- 7- Certificate of honoring **the ideal student from the Dean** of the Faculty of Engineering - Assiut University, 2011.
- 8- Certificate of honor from the educational administration for the **first high school students** in 2009.

Seventh: Work Experience

- 1- **Deputy Technical Manager** and Technical Engineer responsible for conducting the tests at the Soil Mechanics and Foundations Laboratory, Faculty of Engineering, Assiut University, Egypt.
- 2- **Member of Board of Engineering Studies and Consulting Center**, at Faculty of Engineering, Assiut University, Egypt.
- 3- **Consultant Engineer** at **Urban Communities Authority** in the New Assiut City Authority in 2014, through which:
 - Reviewing the construction plans and implementation documents received from the consulting engineering offices for the southeastern expansion project (Al-Rehab) in New Assiut City, with 256 residential buildings.
 - Supervising the implementation and receipt of (16) residential buildings in the southeastern expansions (Al-Rehab) in the new city of Assiut in the stages of (excavation - replacement - foundations - concrete - buildings).
 - Inspections of buildings with cracks and writing technical reports for their treatment.

- Isolation and restoration of concrete elements for columns and foundations for a group of buildings in New Assiut City.
- 4- **Design Engineer** for more than 120 structural projects, including:
- Villas and residential buildings in New Cairo City (El Tagamoa - Beit Al Watan - Gardenia Heights - Badr City).
 - Residential towers in the city of Assiut in areas (Taqseem El Hoqoqien - Al-Azhar - Seed factory Area - Al-Nimis).
 - Residential buildings in the new Assiut city.
 - A residential tower with an area of 1100 square meters overlooking the Nile River in the AbuTig city on the Assiut-Sohag agricultural road.
 - Residential buildings and villas in villages and the center of AbuTig – Assiut Governorate.
 - Residential buildings in the villages of Al-Fath city.
5. **Site Engineer:** Follow up and supervise the implementation of more than 60 projects in all its construction stages, such as:
- Residential towers - residential and administrative buildings - villas
 - Events house in AbuTig city.
6. **Technical and structural reviewer** for a number of administrative and residential buildings.
- Inspection of more than 10 buildings with cracks and problems in design and implementation in areas (Moalmeen - Taqseem El Hoqoqien - Seed factory Area - AbuTig city).
7. Follow up the implementation of pile foundations for more than 10 projects, including:
- Injuries Hospital at Assiut University.
 - The third line of the metro at Jisr el Suez.
 - 25 January Bridge in Assiut.
8. Follow up on the implementation of poreholes and replacement works for more than 30 sites.

Dr. Ahmed Abdelaziz Megally

September 2022