

CURRICULUM VITAE

HUSSEIN MAHMOUD HUSSEIN MOSTAFA

Assistant Professor

Over twenty-five (25) years experience in civil engineering, geotechnical engineering, foundation engineering, ground water control, shoring systems, etc...

<u>NATIONALITY</u>	Egyptian
<u>AGE</u>	51
<u>MARITAL STATUS</u>	Married
<u>MILITARY SERVICE</u>	Completed
<u>LANGUAGES</u>	Arabic (mother language), English and Russian (V. good)

EDUCATION

- *Doctor of Philosophy*
Geotechnical Engineering, Soil Mechanics & Foundation Engineering Department, Moscow State University for Civil Engineering, Russia, (2001-2005).
Thesis: Study of the stress-strain state for two layers saturated clay.
- *Master of Science*
Civil Engineering, Faculty of Engineering, (1995-1999).
Helwan University, Egypt
Thesis: Effect of grading and relative density of calcareous sand on its geotechnical design parameters.
- *Bachelor of Science*
Civil Engineering, Faculty of Engineering, (1989-1994).
Helwan University, Egypt

PROFESSIONAL ORGANIZATIONS AND DEVELOPMENT

- Member of the following societies:
 - American Society of Civil Engineering.
 - Egyptian Syndicate of Engineers.
 - Committee member of development of the Egyptian Soil Mechanics Code – HBRC (previously).

COMPUTER SOFTWARE SKILLS:

Specialized Engineering Programs

- **PLAXIS**: a geotechnical analysis program for Soil and soil-structure systems using the finite element theory.
- **Wallap**: a geotechnical analysis program for shoring systems.
- **All-pile**: a geotechnical analysis program for axial capacity and laterally loaded piles.
- **Pdisp**: a geotechnical program for calculating elastic vertical settlement.
- **Slope**: a geotechnical analysis program for slope stability analysis.
- **In house Spreadsheets** for many Geotechnical calculations.

Miscellaneous Programs

- **AutoCAD Releases.**
- **Pc-Column** structural analysis.

- Office Releases.
- PROKON structural analysis.

EXPERIENCES

Academic Activities

2021 – Date Assistant Professor of Geotechnical Engineering, Faculty of Engineering, Helwan University, Egypt.

2012 – 2021 Assistant Professor of Geotechnical Engineering, Faculty of Engineering at Al-Qunfudhah, Umm Al-Qura University, Saudi Arabia.

2014 – 2018 Head of Construction Engineering Department, Faculty of Engineering at Al-Qunfudhah, Umm Al-Qura University, Saudi Arabia.

2005 – 2012 Assistant Professor of Geotechnical Engineering, Faculty of Engineering at Helwan University, Egypt.

2001 – 2005 Researcher of Geotechnical Engineering, Soil Mechanics & Foundation Engineering Department - Moscow State University for Civil Engineering, Russia.

1998 – 2001 Assistant Lecturer of Civil Engineering, Faculty of Eng. – Helwan University, Egypt.

1996 – 1998 Research Assistant of Civil Engineering, Faculty of Eng.– Helwan University, Egypt.

○ **Teaching the following topics:**

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| - Soil & Rock Mechanics. | - Geotechnical Engineering. |
| - Foundation Engineering, | - Slope Stability and Stabilization Methods. |
| - Earth Retaining Structures. | - Transportation & Traffic Engineering. |
| - Soil Structures Interaction. | - Engineering Reports. |
| - Engineering Geology. | - Engineering Economy. |
| - Contemporary Topics in Construction Engineering. | - Introduction to Const. Eng. |
| - Deep Foundations. | - Construction Project Management. |

AWARDS & TRAINING COURSES

- Awarding Umm Al-Qura University e-Learning Activation Prize for three successive years: 2018, 2019 & 2020.
- Participating in creating a new study plan for Construction Dept., Engineering College at Alqunfudhah, Umm Al-Qura University, ver. 1438.
- Workshop titled as "Design of digital course content according to international quality standards QM", UQU - April 2021.
- Workshop titled as "Flipped Classroom Strategy", UQU - April 2021.
- Workshop titled as "Gamification Strategy ", UQU - April 2021.
- Workshop titled as "How to customize the digital learning to learners ", UQU - March 2021.
- Workshop titled as "Open Educational Resources", UQU - March 2021.
- Virtual Forum titled as "Future of e-Learning - Vision and Roadmap", KAU - March 2021.
- Webinar titled as "Assessment and Learning Outcomes during Covid-19", IAU - January 2021.

- Workshop titled as "Statistical analysis of data using a program SPSS", EEA - December 2020.
- Workshop titled as "Strategic Planning", EEA - December 2020.
- Workshop titled as "Explanation of RefWorks program for managing references and citations", SDL – November 2020.
- Workshop titled as "Applying the Two-Step Verification to the UQU Accounts", UQU – November 2020.
- Virtual Forum titled as "Educational Forum for Artificial Intelligence Applications in Education", Faculty of Education, UQU - November 2020.
- Workshop titled as "Tips for Getting Published", EEA - November 2020.
- Workshop titled as "Quality Fundamentals in Designing e-Courses", UQU - October 2020.
- Workshop titled as "Support and success of the e-Teacher through the application of digital learning strategies", UQU - October 2020.
- Workshop titled as "Methods of Learner Evaluation and Feedback", UQU - September 2020.
- Workshop titled as "Designing a stimulating learning environment using educational aids", UQU - April 2020.
- Virtual Forum titled as "Thriving in the Age of Corona: Challenges and Opportunities", KFUPM - April 2020.
- e-Training course titled as "What to Expect from Book Publishing", SDL – April 2020.
- Workshop titled as "Effective Leadership in Crises", UQU – April 2020.
- e-Training course titled as "Available Resources from Emerald Company", SDL – November 2019.
- e-Training course titled as "Application of Quality Standards QM in Designing e-Courses (1st level)", Committee Of e-Learning Distance Education Deans in Saudi University, MOE-October 2019.
- e-Training course titled as "Strategies for Digital Content Production in Education", SDL – February 2019.
- e-Training course titled as "Administrative Writing", SDL – May 2018.
- Workshop titled as " Academic Advising", Helwan University - October 2011.
- Workshop titled as "Learning Outcomes and Curriculum Maps for Higher Education Institutions", NAQAAE - January 2011.
- Workshop titled as "Self-Assessment of Higher Education Institutions", NAQAAE - May 2010.
- Workshop titled as "External Reviewer for Higher Education Institutions", NAQAAE - May 2010.
- Training course titled as "Design of e-Learning Courses", Helwan University - 2009.

PUBLICATIONS & RESEARCH

- 1- **Hussein Mostafa**, Hatem El-ssayed, Safia Mahmoud, "Settlement Prediction Due to Diaphragm Walls Installation at Heliopolis Metro Station in East Cairo, Egypt", Engineering Research Journal, Volume 178, C17-C34, 2023.
- 2- **H. M. H. Mostafa**, "A Comparative Study for Behavior of Strutted D Walls under Asymmetric Lateral Loading along the Chao Phraya River Formation", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), ISSN: 2278-1684, Volume 17, Issue 4 Ser. II (Jul. – Aug. 2020), pp 52-63, 2020.

- 3- **H. M. Mostafa**, F. A. Baligh, M.M. Hamed, "Numerical Analysis for Asymmetric Side Supporting Systems in Sandy Soil", The 17th African Regional Conference on Soil Mechanics and Geotechnical Engineering, The South African Institution of Civil Engineering, Submission ID: 198, South Africa, 2019.
- 4- Wael Zaghoul ElSayad, **Hussein Mahmoud Hussein**, "Reducing the Negative Effects of Dust Storms Using Solar Energy to Recycle Plastic Waste", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-6, Issue-1, 2016.
- 5- **H. M. Hussein** and M. H. Rabie, "Assessment of liquefaction potential in Sinai, Egypt", Proceedings of the 9th ICCAE-9 Conference, under publication, Cairo, 29-31 May, 2012.
- 6- **H. M. Hussein** and Z. G. Ter-Marterosian, "Study of the stress-strain state of two layers saturated clay", Ph.D. Dissertation, Moscow, Russia, 2005.
- 7- **H. M. Hussein**, A. O. Hindy, A. Radwan, F. A. Baligh, "Shear Strength and Compressibility Characteristics of Calcareous Sand", second International Conference on Civil Engineering, Faculty of Engineering, Helwan University, Cairo, Egypt, pp. 305-322, 2000.
- 8- **H. M. Hussein**, A. O. Hindy, A. Radwan, F. A. Baligh, "Effect of grading and relative density of calcareous sand on its geotechnical design parameters", M.Sc. Thesis, Cairo, Egypt, 1999.

Supervision of Thesis's

- 9- "Study on the lateral pressure and strain of swelling clay", Master thesis, 2010.
- 10- "Numerical Analysis for Unsymmetrical Side Supporting Systems", Master thesis, 2013.
- 11- "A study of ground subsidence due to deep excavation using numerical soil models", Master thesis, 2014.
- 12- "A study of the behavior of diaphragm wall as a side support for deep excavation", Master thesis, 2015.
- 13- "Geotechnical and Finite Element Analysis for Buried Metro Station", PhD research, still ongoing.
- 14- "Reliability analysis for design of vertical drains in soft clay", PhD research, still ongoing.
- 15- "Effect of grouting underneath piles to minimize subsidence of new tunnel construction using finite element", M.Sc research, still ongoing.
- 16- "Improvement of clayey silty soil layers below sub base of Delta country roads by mixing with palm tree fronds", M.Sc research, still ongoing.

REFERENCES

- 1- Prof. Usama Ebead, Professor of Structural Engineering, Qatar University, Qatar.
email: uebead@qu.edu.qa
- 2- Prof. Mohamed Rabie, Former Dean of Faculty of Engineering, Professor of Soil Mechanics & Foundations Engineering, Helwan University, Egypt.
email: m.hassanain@m-eng.helwan.edu.eg
- 3- Prof. Jaber Alzahrany, Assistant Vice Rector for Postgraduate Studies and Scientific Research, Umm Al-Qura University, Saudi Arabia.
email: jszahrani@uqu.edu.sa

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