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Dr. Hassan A. Abbas is an Assistant Professor in the Civil Engineering Department at the University of Prince Mughrin, specializing in geotechnical and construction engineering. He earned his Ph.D. in Geotechnical Engineering from King Fahd University of Petroleum and Minerals, KSA, in 2015. Dr. Abbas is a registered Professional Engineer (PE) and holds the Fundamental Engineering (FE) Certification from NCEES, obtained in 2016 and 2017, respectively. With extensive experience in both academia and industry, he has held positions at renowned institutions, including the University of Gezira and King Fahd University. His research focuses on innovative solutions for soil improvement, particularly in sabkha soils, and he has numerous publications in prestigious journals.

Qualification :

- 1 - PhD Geotechnical Engineering, King Fahd University of Petroleum and Minerals, KSA 2015**
- 2 - MS Construction Engineering, University of Sudan for Science & Technology, Sudan 2007**
- 3 - BS Civil Engineering (Structure), University of Sudan for Science & Technology, Sudan 2001**

Research Interest :

Finite Element Modeling, stone columns, Sabkha soils, Expansive soil, Soil improvement

Publications :

June 2023 to May 2024

- 1. Abdulrhman Marie, Tarek. M. Al-Hussain, Abas, H.A., Isameldin You-sif, Hussain Al-Shekkfah, “Efficiency of Micropiles Surrounded by Sand to Avoid Uplifting Deformation of Strip Footing over Expansive Soils” International Journal of Academic Engineering Research (IJAER), Volume 7, Issue 6, pp 57-62, June 2023.**

2. Abas, H.A., Ayed E. Alluqmani, “A Numerical Study for Predicting Pipeline Deformations Caused by Expansive Soil Swelling” FEAST 3rd International Conference on Engineering Technology, Applied Sciences, Computing & Networking (EACN), London, August 2023.
3. Abas, H.A., Medawi, A.M. Investigating stone column effectiveness for sabkha soil improvement: field tests and numerical model. J. Umm Al-Qura Univ. Eng. Archit. (2024). <https://doi.org/10.1007/s43995-023-00042-0>.
4. Abas, H.A., Alluqmani, A.E. & Yousif, I. Assessing deep soil mixing for excavation support in Sabkha soils: a numerical study. J. Umm Al-Qura Univ. Eng. Archit. 15, 1–13 (2024). <https://doi.org/10.1007/s43995-023-00036-y>.
5. Abas, H.A., Omar Dakhil, Isameldin Yousif, Tarek. M. Al-Hussain, Nedaa H. Sanafiri, Abdulrahman Marie. Opportunities of Implementing Sustainable Urban Transport in Al Madinah Al Munawara. International Conference on Advancing Sustainable Futures (ICASF 2023), Abu Dhabi, December 2023. (Proceedings in progress).
6. Tarek. M. Al-Hussain, Abdulrahman Marie², Abas, H.A., Isameldin Yousif, and Omar Dakhil. A Sustainable Organized Decision-Making Process for Identifying the Optimal Transportation System in Al-Madinah Al-Munawara. The 2nd International Conference on Sustainability: Developments and Innovations, Riyadh, Feb 2024. (Proceedings in progress).
7. Hussain Alsadiq, Galal Almekhlafi, Abdulhamid Alabdullah, Somia A., and Abas, H.A. Enhancing Thermal Properties in Concrete Blocks Using Styrofoam-Wax Mixtures. The 2nd International Conference on Sustainability: Developments and Innovations, Riyadh, Feb 2024. (Proceedings in progress).

Other Accreditation:

Fundamental Engineering (FE) Certification (NCEES), 2016
Professional Engineers (PE) Certification (NCEES), 2017