Nada Mohamed Aboeleneen

lecturer in Chemical Engineering Department & Natural Gas Engineering Program

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Education

1. | PhD |faculty of engineering – Cairo university | Sep. 2022

- Obtaining a PhD in Chemical Engineering.
- **Scientific research topic:** Using nanotechnology in treating agricultural and industrial wastewater from pesticide residues (equilibrium - reaction dynamics - adsorption mechanism - thermodynamicfactors - economic study - design of an intermittent adsorption unit).

2. | Master of Science in Chemical Engineering |faculty of engineering – Cairo university| may 2017

- Obtaining a Master's degree in Chemical Engineering.
- **Scientific research topic**: Treatment of agricultural wastewater and removal of dyes from industrial wastewater using adsorption technology (equilibrium - reaction dynamics - adsorption mechanism - thermodynamic factors - design of an intermittent adsorption unit).

3. | Bachelor's degree in Chemical Engineering | Higher institute of engineering and technology in Damietta | MAY 2014 |

- Obtaining a Bachelor's degree in Chemical Engineering with a grade of distinction with honors and first class with a cumulative GPA of 3.89.
- **Graduation project:** Designing a urea production plant with a production accelerator of 500 tons/day (material budget - energy budget - equipment design - economic study - HAZOP study -site selection - simulation using the HYSYS program).

Experience

- **| Assistant Professor |faculty of engineering, port said university, chemical engineering department and natural gas engineering program (Part Time) |feb.2026 - tell now**
- **| Assistant Professor |higher institute of engineering and technology in new Damietta |oct.2022 - tell now**
- **| Assistant teacher |higher institute of engineering and technology in new Damietta |June 2017 – sep.2022**
- **| Demonstrator |higher institute of engineering and technology in new Damietta |oct.2014 - May 2017**

Academic experiences

1. Teaching each of the following courses as a teaching assistant

- **Fluid mechanics**
- **Process dynamic and control**
- **Material science andmetallurgy**
- **Corrosion engineering**
- **Petroleum refining**
- **Ceramics technology**
- **Polymer's engineering**
- **Wastewater treatment**
- **Rubber technology**
- **Gas engineering**
- **Synthetic fibers**
- **Industrial technologies inchemical engineering**
- **Engineering design**
- **Engineering economics**
- **Operation researches**
- **Petrochemical's engineering**
- **Inorganic chemistry**
- **Analytical chemistry**
- **Physical chemistry**
- **biochemistry**
- **organic chemistry**
- **engineering chemistry**
- **water desalination**
- **quality assurance and control**
- **reactor design**
- **Plant design**
- **Process modeling andsimulation**
- **Computer applications inchemical engineering**
- **Mass transfer operations**
- **Mass transfer**
- **Heat transfer**
- **Mechanical unitoperations**
- **Chemical engineering thermodynamics**
- **Chemical engineering principals 1**
- **Chemical engineering principals 2**

2. **Teach of the following courses as an assistant professor:**

   - **Natural gas fluid properties**
   - **Corrosion engineering and control**
   - **Plant design**
   - **Material science and metallurgy**
   - **Ceramics technology**
   - **Analytical chemistry**
   - **Renewable energy resources**
   - **Liquefaction of natural gas**
   - **Quality control for natural gas production**

3. **Chemical engineering program coordinator.**
4. **Carrying out examinations and control work.**
5. **Working as Chairman of the Quality Management and Development Standard Committee within the Quality Assurance Unit.**
6. **Working as Chairman of the Laboratory Development Committee in the Chemical Engineering Department.**
7. **Working as a quality coordinator in the Chemical Engineering Department.**
8. **Working as an executive board member in the Quality Assurance Unit.**
9. **Working as the head of the committee for monitoring and amending the Chemical Engineering Department's website.**
10. **Working as a scientific pioneer and academic advisor.**
11. **Working as Chairman of the Student Activities Committee in the Department of Chemical Engineering.**
12. **Supervising graduation projects in the Chemical Engineering Department.**
13. **Academic supervision of summer training**.
14. **Preparing course files (course report - course specifications - examination paper analysis- statistical analysis).**
15. **Working within the committee to amend the regulations in accordance with the 2020 Reference Framework and NARS 2018.**

16. **Working as a member of the Quality Management and Development Standard Committee within the Quality Assurance Unit.**
17. **Serving as a member of the Board of Directors of the Quality Assurance Unit.**
18. **Working as a member of the Student Training Department.**
19. **Working in the schedule preparation committee.**
20. **Working within the committee to evaluate the institutional capacity and educational effectiveness.**

Professional skills

- **External reviewer in many international journals.**
- **Using modern teaching and learning methods and strategies.**
- **Use effective communication and presentation skills.**
- **Taking full responsibility for the work, taking into account quality and time factors.**
- **Finding innovative and quick solutions to any sudden problem that may arise, without prejudice to any of the other points.**
- **Strong morale and ethics include honesty, responsibility and carrying out tasks.**
- **Comfortable with changing environments and circumstances and remaining flexible and adaptable at all times.**
- **I am efficient and accurate, and always arrive to work on time.**

Courses obtained by the national authority for educational quality assurance andaccreditation NAQAA (2024):

1. **Strategic planning for higher education institutions.**
2. **Self-evaluation of higher education institution.**
3. **Description of programs and courses and evaluation of learning outcomes for higher education institution.**
4. **Effective teaching and learning strategies for higher education institution.**
5. **Organizing examinations and student evaluation for higher education institutions.**
6. **External audit of higher education institution.**

Professional certificates and training courses

• ICDL.	2011
• HYSYS	2012
• MATLAB	2013
• Presentation skills	2014
• Technical writing and writing research papers.	2016
• TOEFL	2017
• R-Tool	2018
• Scientific research methodology.	2018
• critical thinking.	2019
• Basics of digital transformation (FDT) .	2022
• Strategic planning, leadership and governance.	2023
• Occupational safety and health for state institutions.	2023
• Cybersecurity and information technology.	2023
• Economic and financial indicators for enterprise management.	2023
• Statistical analysis using design expert program.	2025

Published research

1. **Mansour, R. A., Aboeleneen, N. M., & AbdelMonem, N. M. (2018). Adsorption of cationic dye from aqueous solutions by date pits: Equilibrium, kinetic, thermodynamic studies, and batch adsorber design. International journal of phytoremediation, 20(10), 1062-1074. https://doi.org/10.1080/15226514.2018.1460306**

2. **Atef, R., Aboeleneen, N. M., & AbdelMonem, N. M. (2023). Preparation and characterization of low-cost nano-particle material using pomegranate peels for brilliant green removal. International Journal of Phytoremediation, 25(1), 36-46. https://doi.org/10.1080/15226514.2022.2056133**

3. **Sorour, F. H., Marouf, Y. M., Abd-ElMonem, N. M., Aboeleneen, N. M., & Mansour, R. A. (2024). Raw sawdust utilization for the removal of acid red57 and basic fuchsin dyes from aqueous solution: equilibrium, kinetics, and thermodynamic investigation. International Journal of Phytoremediation, 26(5), 669-683. https://doi.org/10.1080/15226514.2023.2259999**

4. **Sorour, F. H., Aboeleneen, N. M., Abd El-Monem, N. M., Ammar, Y. A., & Mansour, R. A. (2024). Removal of malachite green from wastewater using date seeds as natural**

adsorbent; isotherms, kinetics, Thermodynamic, and batch adsorption process design. International Journal of Phytoremediation, 26(8), 1321-1335. https://doi.org/10.1080/15226514.2024.2316315

5. Aboeleneen, N. M., AbdelMonem, N. M., & Atef, R. (2025). Effective application of green nano adsorbent on the removal of carbofuran from wastewater. Chemical Engineering Communications, 212(2), 235-249. https://doi.org/10.1080/00986445.2024.2406027

6. Fouad, S. M., Aboeleneen, N. M., Oraby, H., Abd-ElMonem, N. M., & Sorour, F. H. (2025). Removal of Cu, Cr, Zn, and Pb from Wastewater by Using a Composite of Chitosan and Metal Organic Framework Mil (53) Fe. Egyptian Journal of Chemistry, 68(13), 705-739. https://doi.org/10.21608/ejchem.2025.358788.11275

7. Sorour, F. H., Aboeleneen, N. M., Abd-ElMonem, N. M., Elazaby, R. R., & Mansour, R. A. (2025). Date seeds as biosorbent for removal of heavy metals from aqueous solutions: nonlinear fitting, error analysis and mathematical modelling. Journal of the Indian Chemical Society, 102355. https://doi.org/10.1016/j.jics.2025.102355

8. Farrag, T. E., & Aboeleneen, N. M. (2025). Preparation and characterisation of avocado seed nano carbon and its application in the removal of phenol from aqueous solutions. International Journal of Environmental Analytical Chemistry, 105(20), 9212-9242. https://doi.org/10.1080/03067319.2025.2497472

9. Atef, R., Mansour, R. M., & Aboeleneen, N. M. (2026). Andesite as an Affordable Natural Desiccant for Dye-Polluted Aqueous Solutions. Water, Air, & Soil Pollution, 237(4), 228. https://doi.org/10.1007/s11270-025-08811-4

10. Aboeleneen, N. M., Atef, R., & Mansour, R. A. (2026). Efficient malachite green dye removal from wastewater using activated Casuarina equisetifolia cones and needles adsorbents: characteristics, adsorption kinetics, thermodynamic modeling, and column test. Chemical Engineering Communications, 213(6), 1044-1061. https://doi.org/10.1080/00986445.2025.2602573

11. F. Shoair, A. G., Momen, A. V., Aboeleneen, N. M., Salim Alhebshe, N., Yahya Otaif, H., El-Basiony, A., & Mansour, R. A. (2026). Chemically activated metakaolin as a novel and efficient adsorbent for the removal of Cd (II) ions from aqueous solutions. Chemical Engineering Communications, 213(7), 1283-1305. https://doi.org/10.1080/00986445.2025.2611394

12. Aboeleneen, N. M., Farrag, T. E., & Atef, R. (2026). Comprehensive isotherm, kinetic, and thermodynamic study of phenol adsorption onto avocado seed nanomaterial. International Journal of Phytoremediation, 28(10), 2207–2225. https://doi.org/10.1080/15226514.2026.2648743

13. Elousta, O. S., Aboeleneen, N., Monem, N. A., & Farrag, T. I. (2026). Phenol Removal from Aqueous Solutions Using Date Pits as a Natural Adsorbent. Port-Said Engineering Research Journal, 30(1), 112-120. https://doi.org/10.21608/pserj.2025.410561.1432

14. Aboeleneen, N. M. (2026). Sustainable valorization of jamun seed waste into activated carbon for enhanced performance adsorption: characterization and application in removal of cationic dyes from aqueous solutions. International Journal of Phytoremediation, 1-25. https://doi.org/10.1080/15226514.2026.2654194

15. Ibrahim, N. F., Aboeleneen, N. M., Abdelmonem, N. M., & Sorour, F. H. (2024). Recycling Egyptian Rice Straw to Produce Low-Cost Building Materials for Energy Saving. Egyptian Journal of Petroleum, 33(2), 7. https://doi.org/10.62593/2090-2468.1024

16. Elezz, M. A., Aboeleneen, N. M., Abd-ElMonem, N. M., & Sorour, F. H. (2025). A comprehensive review: Functional nanomaterials for renewable energy: Innovations, applications, and sustainable strategies. Next Materials, 9, 101001. https://doi.org/10.1016/j.nxmate.2025.101001

17. Elwesimy, M. S., Aboeleneen, N. M., Tantawy, H., Abd-ElMonem, N. M., Isamil, I. M., & Sorour, F. H. (2026). Elevated-Temperature Rheology and Viscoelastic Transitions in PEG–Silica Shear Thickening Fluids: Influence of Particle Size, Concentration, and Thermal History. Journal of the Indian Chemical Society, 102722. https://doi.org/10.1016/j.jics.2026.102722

18. Aboeleneen, N. M., & Atef, R. (2026). Experimental investigations on the use of Cordia myxa extract as green corrosion inhibitor for carbon steel in hydrochloric acid. Canadian Metallurgical Quarterly, 1–33. https://doi.org/10.1080/00084433.2026.2705728

19. Shoair, A. G. F., Alshareef, F. M., Alsaggaf, W. T., Mansour, R. A., & Aboeleneen, N. M. (2026). Advanced statistical and nonlinear modeling approach for dye adsorption onto a sustainable Casuarina-based microporous adsorbent. International Journal of Phytoremediation, 1–23. https://doi.org/10.1080/15226514.2026.2722295

20. Omnia Salah Aloustaa, Nabil Mahmoud Abd-ElMonem b, Taha Ebrahim Farrag a, and N. M.Aboeleneen. (2026). Preparation, Characterization, and Adsorption Performance of Date Pit-Based Adsorbents for Phenol Removal. International Journal of Phytoremediation, 1–25.

SUPERVISED MASTER'S THIESIS

1. **Optimal conditions for activated carbon preparation from avocado seeds for industrial wastewater treatment (faculty of engineering, port said university).**
2. **Removal of dyes from industrial wastewater using geopolymer adsorbent (faculty of engineering, port said university).**
3. **Preparation and application of ecofriendly geopolymer adsorbent for the removal of heavy metals from aqueous solutions (faculty of engineering, port said university).**

LANGUAGES

- **Arabic | Mother tongue.**
- **English | Very good speaking, writing, and reading.**

REFRENCES

1. **Name:** Prof. Dr. Ibrahim gar Al-Alam Rashid

   Position: Former Dean of the Faculty of Engineering - Mansoura University.

   Contact information: Tel: +201223455789 Email: garalalam48@yahoo.com

2. **Name:** Prof. Dr. Nabil Mahmoud Abdel Moneim

   Position: Full Professor, Faculty of Engineering, Cairo University

   Contact information: Tel: +201005050581 Email: nabil_abdelmonem@gmail.com

3. **Name:** Prof. Dr. Taha Ibrahim Farrag

   Position: Dean of the Faculty of Engineering, Port Said University

   Contact information: Tel: +201010895853 Email: tahafarrag70@gmail.com

4. **Name:** Ass. Prof. Dr. Hind Al-Sayed gado

   Position: Head of the Chemical Engineering Department at Higher Institute of Engineering inDamietta

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5. **Name:** Ass. Prof. Dr. Ramadan Abdel-Ghani Al-Kateb

   Position: Director of the Quality Assurance Unit at Higher Institute of Engineering in Damietta

   Contact information: Tel: +201019117279 Email: drramadanelkateb@yahoo.com

6. **Name:** Dr. Reham Atef Abdel Mawla

   Position: Vice Director of the Quality Assurance Unit at Higher Institute of Engineering in Damietta

   Contact information: Tel: +201100101610 Email: rihamatef99@gmail.com

**All documents are available upon request