

1. Name:

- Yehya Ibrahim Mesalam Ali

2. Education:

- Ph.D. in Industrial Engineering and Systems, Zagazig University, (2012)
- M.Sc. in Industrial Engineering and System, Zagazig University, (2005)
- B.SC. In Industrial and Production Engineering, Zagazig University, (1994)

3. Academic experience:

- Northern Border University, Assistant professor of Industrial Engineering, Department of Industrial Engineering, (4/12/2017- Present), full-time
- Zagazig University, Assistant professor of Industrial Engineering, Department of Industrial Engineering, (27/3/2012- 2/12/2017). full-time
- Zagazig University, Assistant Lecturer in Industrial Engineering Department, (26/3/2005 - 26/3/2012), full-time
- Zagazig University, Administrator in Industrial Engineering Department, (6/9/1998 – 25/3/2005), full-time

4. Non-academic experience:

- None

5. Certifications or professional registrations:

- None

6. Current membership in professional organizations:

- Egyptian Engineers Syndicate
- Egyptian Society of Mechanical Engineers

7. Honors and awards:

- None

8. Service activities (within and outside of the institution):

- None

9. Briefly list the most important publications and presentations:

1. El-Mesady, A., Abd El-Latif, A. M., Mesalam, Yehya I., Teklu, S. W., & Shaaban, S. M. (2026). Dynamics and linear feedback control of a novel discrete fractional-order Zika virus model with multiroute transmission. *Journal of Mathematics*, 2026(1), 4913917.
2. Ashour, M., Elsaeed, A., Mesalam, Y. I., & Elshaer, R. (2025). A hybrid multi-level ant colony optimization framework for integrated production scheduling and vehicle routing. *Scientific Reports*.
3. Alfryan, N., Al-Ghamdi, H., Alsaif, N. M., Shaaban, S. M., & Elsad, A., et al. (2025). Investigation of Rach parameters and γ -ray protection features of borate glasses containing Fe_2O_3 and Er_2O_3 for optical and radiation shielding applications. *Journal of Materials Engineering and Performance*, 34.
4. Shaaban, S. M., El-Sherif, A. M., Hammam, A. H., Attalla, M. H., & Mesalam, Y. I. (2025). Petroleum well site selection using MCRAT integrated with rough set theory. *European Journal of Pure and Applied Mathematics*, 18(2), 649–649.

5. Alharshan, G. A., Ebrahim, N. M., Shaaban, S. M., Said, S. A., & Mesalam, Y. I., et al. (2025). Antimony-doped phosphate glasses: Production, structure, optical, dielectric features, and gamma attenuation attributes. *Journal of Materials Engineering and Performance*.
6. Alharshan, G. A., Mahmoud, A. M. A., Shaaban, S. M., Mesalam, Y. I., & Ebrahim, N. M., et al. (2025). Synthesis, optical, and gamma-ray attenuation characteristics of borate glasses doped with europium oxide. *Journal of Materials Engineering and Performance*.
7. Alfryan, N., Al-Ghamdi, H., Alsaif, N. A. M., Shaaban, S. M., Shams, M. S., et al. (2025). Sodium fluoroborate glass loaded with fixed CoO and variable La_2O_3 : Fabrication, physical, FTIR, and dielectric characteristics. *Journal of Electronic Materials*, 54(2), 1467–1474.
8. Alharshan, G. A., Ebrahim, N. M., Elsaifi, M., Elsad, A., Mahmoud, A. M. A., et al. (2025). The lanthanum-doped phosphate glass system: Optical, mechanical, and gamma-ray shielding properties. *Journal of Inorganic and Organometallic Polymers and Materials*, 35(2), 1397–1412.
9. Alharshan, G. A., Shaaban, S. M., Ebrahim, N. M., Said, S. A., & Mesalam, Y. I. (2024). The antimony-doped phosphate glasses system's optical, radiation-shielding, and physical properties. *Optical and Quantum Electronics*, 57(1), 31.
10. Al-Huwazy, M. A., Almuqrin, A. H., Shaaban, S. M., Mesalam, Y. I., & Rammah, Y. S. (2024). The impact of V_2O_5 on structure, dielectric, and radiation-shielding characteristics of borate-lead glasses. *Optical and Quantum Electronics*, 56(10), 1648.
11. Alfryan, N., Alsaif, N. A. M., Al-Ghamdi, H., Abdelghany, A. M., Abouhaswa, A., et al. (2024). Development of barium borosilicate glasses reinforced with CdO for potential use in optical and γ -ray protection applications. *Optical and Quantum Electronics*, 56(9), 1402.
12. Alharshan, G. A., Shaaban, S. M., Said, S. A., Ebrahim, N. M., Mahmoud, A. M. A., et al. (2024). Impact of europium oxide on structural, dielectric, and radiation-shielding properties of zinc lithium borate glasses. *Optical and Quantum Electronics*, 56(8), 1354.
13. Alsaif, N. A. M., Alfryan, N., Al-Ghamdi, H., Shaaban, S. M., Rammah, Y. S., et al. (2024). Optical and gamma-ray attenuation of cobalt and lanthanum-doped sodium zinc lead borate glasses. *Materials Science: Materials in Electronics*, 35(21), 1458.
14. Mesalam, Y. I., Awadh, S., Gaiad, H., & Elfalon, A. (2024). Interleaved bidirectional DC–DC converter for renewable energy application based on a multiple storage system. *Engineering, Technology & Applied Science Research*, 14(2), 13329–13334.
15. Ahmed, H. E., Mesalam, Y. I., & Shaaban, S. M. (2024). Extraction of solar module parameters using a novel optimization technique. *Engineering, Technology & Applied Science Research*, 14(2), 13112–13117.

16. Yadav, A. K., Singh, K., Arshad, N. I., Ferrara, M., Ahmadian, A., & Mesalam, Y. I. (2024). MADM-based network selection and handover management in heterogeneous network: A comprehensive comparative analysis. *Results in Engineering*, 21, 101918. <https://doi.org/10.1016/j.rineng.2024.101918>
17. Alsaif, N. A. M., Al-Ghamdi, H., El-Rafey, A. M., Sadeq, M. S., Shams, M. S., et al. (2024). Synthesis, structural, optical properties and dielectric spectroscopy of nickel-doped lead borate glasses. *Optical and Quantum Electronics*, 57(6), 383.
18. Al-Ghamdi, H., Al-Omari, S., Alsaif, N. A. M., Fatneh, A., Zakaly, H. M. H., et al. (2024). Influence of $[\text{Na}_2\text{O}]/[\text{CuO}]$ on the physical and photon attenuation capacities of cupric sodium phosphate glasses: A comparative study. *Optical and Quantum Electronics*, 56(1), 89.
19. Zaky, M. S., Shaaban, S. M., Fetouh, T., Azazi, H. Z., & Mesalam, Y. I. (2022). Optimization of observer feedback gains for stable sensorless IM drives at very low frequencies: A comparative study between GA and PSO. *Mathematics*, 10(10), 21.
20. Shaaban, S. M., & Mesalam, Y. I. (2022). SVC parameters optimization using a novel integrated MCDM approach. *Symmetry*, 14(4), 702.
21. Agwa, A. M., Mesalam, Y. I., Hassan, M. H., El-Daban, M. A., El-Sherif, I. S., & Kamel, S. (2022). On this page. *International Transactions on Electrical Energy Systems*.
22. Haweel, M. H., Elawady, H., Yehya, M., & Mohamed, H. (2016). The impacts of human resource management practices on company labor productivity: Empirical evidence from Iron and Steel Company in Libya. *American Scientific Research Journal for Engineering, Technology, and Sciences*.
23. Elbaz, M., & Mesallam, Y. (2012). TOPSIS and multi-choice goal programming approach: Supplier selection in supply chain management. *The Egyptian International Journal of Engineering Sciences and Technology*, 15(154-166).
24. El-baz, M. A., & Mesalam, Y. I. (2011). An integrated approach for multi-objective production and distribution planning in supply chain management. *The Egyptian International Journal of Engineering Sciences & Technology*, 14(3).
25. Ibrahim, M. S., Elbaz, M. F., & Mesalam, Y. I. (2005). Activity-based costing for evaluating manufacturing facilities decision-making. *The Egyptian International Journal of Engineering Sciences and Technology*, 9(2-3).
26. Ibrahim, M. S., Elbaz, M. F., & Mesalam, Y. I. (2004). Fuzzy goal programming approach for multi-objective decision making problems. 8th International Conference on Production Engineering Design and Control, 27-29 December 2004, Alexandria, Egypt.

10. Briefly list the most recent professional development activities:

- Co-researcher in research under titled “*Improved Gradient-Based Optimizer for Modelling Thermal and Hydropower Plants*”, (2021-2022).
- Co-researcher in research under titled “*Extraction of Solar Module Parameters Using a Novel Optimization Technique*”, (2021-2022).
- Principal researcher in research under the title “Interleaved bidirectional DC–DC converter for renewable energy application based on multiple storage systems”, (2022-2023).