1. Name: Heba Ali Mohamed Abd El Gawad, Assistance Professor, Department of Engineering Mathematics and Physics, Higher Institute of Engineering, El-Shorouk Academy, Cairo, Egypt.

2. Degrees:

- B.S. (Chemical engineering) Higher Institute of Engineering, El-Shorouk Academy, Cairo, Egypt. 2006
- M.S. (Chemical and Petroleum Refining Engineering), Faculty of Petroleum and Mining Engineering, Suez University,
 2012
- Ph.D. (Philosophy in Chemical Engineering), Faculty of Engineering,
 Cairo University,
- 3. Years of Service on Faculty: 7
 - 2018 Present Assistance Professor.
- 4. Other Experience:
 - 2018 2023: Visiting Professor- Institute of Aviation Engineering and Technology.
- **5. Consulting Activities (selected)**
 - None
- 6. States in which registered:
 - Cairo, Egypt.
- 7. Principal publications of last 5 years (selected):
 - "An application of advanced oxidation process on industrial crude oily wastewater treatment," Sci. Rep., vol. 13, no. 1, p. 3420, 2023.
 - "Silver withdrawal from X-Ray waste via leaching and sorption techniques: Appraisal ideal treatment factors" *Egypt. J. Chem.*, vol. 66, No. 5, pp. 509 522 (2023).
 - "Electrochemical Production of Sodium Hypochlorite from Salty Wastewater Using a Flow-by Porous Graphite Electrode", Energies, vol. 16, no. 12, p. 4754, 2023.
 - "Rice straw derived cellulose-based hydrogels synthesis and applications as water reservoir system", International Journal of Biological Macromolecules, vol. 253 (2023) 127058.
 - "Chromium Disarmament from Veritable Tanneries Sewer Water Utilizing Carbonic Rice Straw as a Sorbent: Optimization and Carbonic Rice Straw Characteristics", Water Air Soil Pollution, (2023) 234:659.
 - "Removal of chromium from tannery industry wastewater using iron-based electrocoagulation process: experimental; kinetics; isotherm and economical studies", Sci. Rep., 13 (2023) 19597.
 - "Pioneering Heat Exchanger Network Synthesis: A TOPSIS Driven Paradigm for Optimal Solutions", Decision Making: Applications in Management and Engineering, Volume 7, Issue 1 (2024) 420-441.
 - "A Comprehensive Approach to Azo Dichlorotriazine Dye Treatment: Assessing the Impact of Physical, Chemical, and Biological Treatment Methods through Statistical Analysis of Experimental Data", Water 2024, 16(10), 1327; https://doi.org/10.3390/w16101327.

• "Novel collector design and optimized photo-fenton model for sustainable industry textile wastewater treatment", Sci. Rep., volume 14, Article number: 8573 (2024).

8. Scientific and professional societies of which a member

- Egyptian Chemical Engineering syndicate
- Egyptian society of engineers, Fellow

9. Honors and awards:

• None

10. Institutional & professional service in last 5 years:

- Member of the Proctoring committee for mid and Final Exams.
- Member of Control Committee (3rd Year).
- Responsible for preparing the new regulation of Chemical Engineering Department 2013 Higher Institute of Engineering at El-Shorouk City.
- Responsible for preparing the new regulation of (Chemical Engineering-Petrochemical) Department 2019 Higher Institute of Engineering at El-Shorouk City.
- Member of the Internal Audit Committee, Higher Institute of Engineering at El-Shorouk City.
- Coordinator of the Internal Quality Committee, Department of Engineering Mathematics and Physics, Higher Institute of Engineering, El-Shorouk Academy, Cairo, Egypt.

11. Professional Development Activities in the last 5 years:

- Critical thinking, 2023. Faculty and Leadership Development Center (FLDC) Cairo University.
- Exam systems and Students Evaluation, 2023. Faculty and Leadership Development Center(FLDC) Cairo University.
- **Preparing the course Description, 2022.** Faculty and Leadership Development Center(FLDC) Cairo University.
- **E-Learning 3, 2020.** Faculty and leadership development center (FLDC) CairoUniversity.
- **Electronic Correction System, 2020.** National Authority for Quality Assurance and Accreditation of Education (NAQAAE).
- Exam system and Students Evaluation for High Education Institutions, 2020.
- National Authority for Quality Assurance and Accreditation of Education (NAQAAE).
- Self-Evaluation of Educational Programs: Colleges and Institutes of Higher Education, 2019. National Authority for Quality Assurance and Accreditation of Education (NAQAAE).