Name: Hazem Ibrahim Bendary, Assistant Professor, Department of chemical engineering, Higher Institute of Engineering, Elshorouk Academy.

Degrees:
B.S. (Chemical Engineering, (Very good with honor degree) (May-2004)
Higher Institute of Engineering, Elshorouk Academy, Elshorouk City, Cairo, Egypt.
M.Sc. Chemical and Petroleum Refining Engineering, Faculty of Petroleum and Mining Engineering, Suez University. (August-2013)
Ph.D. Chemical Engineering, Faculty of Engineering, Cairo University (June-2018)
Major Specialization: Chemical Engineering
Minor Specialization: Material Science
Years of Service on Faculty: 16

- 2018 - present Assistant Professor.

Consulting Activities (selected)

- Re-planning and implementing the information network of Elshorouk Academy, Elshorouk City, Cairo, Egypt (2020 - present).
- Participation within the work team of the Faculty of Engineering, Ain Shams University, in the National Alliance for Knowledge and Technology in the field of space (manufacturing an experimental satellite for advanced technologies) between the National Authority for Remote Sensing and Space Sciences and the Faculty of Engineering, Ain Shams University, with funding from the Academy of Scientific Research and Technology in Egypt (2020 – 2023).
- Preparing, inspecting and maintaining audio and visual systems at Elshorouk Academy, Elshorouk City, Cairo, Egypt (2019).
- Supply and installation of light current systems at Al-Shifa International Hospital, and Hypermarket (Bin Saud), Qena, Qena Governorate (2018-2019).

States in which registered:

- Cairo, Egypt.

Principal publications of last 5 years (selected):

1. Moaaz K Seliem, Ahmed S. ElShimmy, Mohamed Mobarak, Ali Q. Seliem, Ahmed M. Salah, Zainab M. Almarhoon, Zichao Li, Yasser F. Salama & Hazem I. Bendary, (2024) "A magnetic bio-based adsorbent prepared from Fe3O4 nanoparticles impregnated with diatom frustules and sodium alginate for methylene blue uptake: advanced modeling and mechanism", SEPARATION SCIENCE AND TECHNOLOGY, https://doi.org/10.1080/01496395.2024.2315613.
2. Mohamed A. Arif, Hamdy A. Abdel-Gawwad, Ahmed S. Elshimy, Moaaz K. Seliem, Mohamed A. Ali, Saleh N. Maodaa, Karol Federowicz, Mohamed Mobarak, **Hazem I. Bendary**, Yasser F. Salama, Mohamed Abd Elrahman, Hassan Soltan Hassan, (2024) "Facile synthesis and characterization of metakaolin/carbonate waste-based geopolymer for Cr(VI) remediation: Experimental and theoretical studies" Inorganica Chimica Acta 564, https://doi.org/10.1016/j.ica.2024.121939.
3. Mohamed A. Ali, Mohamed Mobarak, Ahmed M. Salah, Ahmed Yehia, Eder C. Lima, Ali Q. Seliem, Ahmed S. Elshimy, M. Al-Dossari, N.S. Abd EL-Gawaad, **Hazem I. Bendary**, Moaaz K. Seliem. (2024) "Facile synthesis and characterization of a magnetic biosorbent derived from sodium alginate and activated graphite schist: Experimental and statistical physics analysis for Mn(VII) remediation", International Journal of Biological Macromolecules 261 https://doi.org/10.1016/j.ijbiomac. 2024.129692.

4. **Hazem I. Bendary**, Mohamed Heikal, Mohamed A Ali, (2023) "Performance of imported granulated blast-furnace slag (IGBFS) rich cement against fire resistance" *Egypt. J. Chem.* **Vol. 66**, No. 10 pp. 125 - 131, https://doi.org/10.21608/ejchem. 2023.173658.7179.
5. Aliaa M. Badawy, Ahmed A. Farghali, Adri´an Bonilla-Petriciolet, Moaaz K. Seliem, Ali Q. Selim, Mohamed A. Ali, M. Al-Dossari, N.S.Abd EL-Gawaad, Mohamed Mobarak, Eder C. Lima, **Hazem I. Bendary**, (2023) "Facile synthesis of a recyclable multifunctional magnetic adsorbent prepared from H_2O_2-modified carbon clay/rice flour polymer/Fe_3O_4 nanoparticles interface for effective removal of ibuprofen", Journal of the Taiwan Institute of Chemical Engineers 152, 105177. https://doi.org/10.1016/j.jtice.2023.105177.
6. **Hazem I. Bendary**, Mohamed Heikal, Mohamed A. Ali, Djamel Ghernaout and Noureddine Elboughdiri, (2023) "Feasibility study of dealuminated kaolin utilization in marine constructions" Revista de la Construcción 2023, 22(2) 509-522; https://doi.org/10.7764/RDLC.22.2.522.
7. Mohamed Heikal, Mohamed A. Ali, Djamel Ghernaout, Noureddine Elboughdiri, Badia Ghernaout and **Hazem I. Bendary,** (2023) "Prolonging the Durability of Maritime Constructions through Sustainable and Salt-Resistant Cement Composite" Materials, 16, 6876. https://doi.org/10.3390/ma16216876.
8. Mohamed Heikal, Mohamed A. Ali, Sahar M Ibrahim and **Hazem I. Bendary,** (2023) "Sustainable composite cement prepared by two different types of iron slag. Journal of Material Cycles and Waste Management (JMCW) https://doi.org/10.1007/s10163-023-01838 -x.
9. **H.I.Bendary**, M.F.Abadir, H.Moselhy and H.B.G.Ghazal, (2018) "Effect of Particle Size of Alum Waste Addition on properties of Ordinary Portland Cement Mortar" (IJAER) ISSN 0973-4562 Vol. 13, Number 7 pp. 4816-4821.

Scientific and professional societies of which a member

- Egyptian Engineers Syndicate, and Egyptian Society of Engineers.

Institutional & professional service in last 5 years:

- Coordinator of Internal Quality Assurance Unit for Chemical Engineering Department.
- Member of Control Committee (2 nd 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.

Professional Development Activities in the last 5 years:

1	Credit hour system	21-22 September 2022	Faculty and leadership development center, Cairo university
2	Examination systems and student assessment	03-04 January 2020	National Authority for Quality Assurance and Accreditation of Education (NAQAAE)
3	Self-Evaluation of Educational Programs: Colleges and Institutes of Higher Education	16-18 September 2019	
4	Electronic Correction System	27-28 March 2019	
5	International Publishing of Scientific Research	04-05 February 2019	
6	Education Programs and Courses Specifications and Evaluation of Learning Outcomes for High Education Institutes	11-13 April 2016	