# Amal Elkassas, Ph.D.

**Lecturer in Chemical Engineering, New Damietta, Higher Institute of Engineering**
**Board Member of the Egyptian Syndicate of Engineers in Damietta**
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## EDUCATION

**2010 B.Sc. in Chemical Engineering, Alexandria University**
**2016 M.Sc. in Chemical Engineering, Alexandria University**
**2026 PhD in Chemical Engineering, Alexandria University**

## PROFESSIONAL EXPERIENCE

**2026 Lecturer in Chemical Engineering, New Damietta, Higher Institute of Engineering**
**2026 Board Member of the Egyptian Syndicate of Engineers in Damietta**
**2016-2025 Assistant teacher in Chemical Engineering, New Damietta, Higher Institute of Engineering**
**2010- 2016 Demonstrator in Chemical Engineering, New Damietta, Higher Institute of Engineering**

## ACADEMIC EXPERIENCE

**Teaching the following courses**

- Plant Design
- Reactor Design
- Industrial Technology in Chemical Engineering
- Materials Science and Metallurgy
- Coating Technology
- Principles of Chemical Engineering 2
- Principles of Chemical Engineering 1
- Water Desalination
- Chemical Thermodynamics
- Mechanical Operation
- Material Transfer Processes
- Physics 1
- Industrial Safety
- Petroleum Refining
- Petrochemical Engineering
- Electroplating
- Engineering Chemistry
- Biochemistry
- Gas Engineering
- Waste Water Treatment

**Academic & Administrative Roles**

- Academic Advising & Scientific Entrepreneurship Unit Member
- Executive Council & Board Member, Quality Assurance Unit
- Quality Management, Development, and Resources Committees Member
- Timetable Preparation & Training Committees Member
- Scientific Research Unit Member
- Alumni Unit Member

**Academic Responsibilities**

- Academic Supervisor for Summer Training
- Member of Regulations Amendment Committee (Reference Framework 2020,2018 NARS)
- Course File Preparation (Specifications, Reports, Exam & Statistical Analysis)

## PROFESSIONAL SKILLS

- Modern teaching and learning strategies.
- Using effective communication and presentation skills.
- Maintaining a high level of responsibility and quality in all aspects of work.
- Finding a practical and effective solution to any problem, including other points.

## SCIENTIFIC RESEARCH

### TITLE OF PAPER:

Elkassas, A., Abd-El-Magied, M. H., Nosier, S. A., Tamer, T. M., Eldin, M. S. M., & Khalifa, R. E. (2026). Water soluble polyacrylamide-grafted carboxymethyl cellulose flocculant: Synthesis, characterization, and flocculation activity evaluation. Arabian Journal of Chemistry, 19.

## CONFERENCES

- 1st International Conference of Chemical, Energy and Environmental Engineering (ICCEEE, 2017).

**TITLE OF PAPER**: Removal of Methylene Blue from Aqueous Solution Using New Activated Carbons Developed from Ficus Nitida: Adsorption Equilibrium and Kinetics.

## LANGUAGES

- Arabic
- English

## SKILLS

- ICDL
- IELTS
- Soft skills